

Result No.	Query			DB	ID	Description
	Score	Match	Length			
1	3337	100.0	697	2	US-09-949-016-9660	Sequence 9660, App
2	3316	99.4	626	2	US-09-949-016-6776	Sequence 6776, App
3	1751	52.5	598	2	US-09-949-016-6699	Sequence 6699, App
4	1751	52.5	641	2	US-09-949-016-10338	Sequence 10338, A
5	1367	41.0	617	2	US-09-949-016-10263	Sequence 10263, A
6	659.5	19.8	300	2	US-09-277-078-2	Sequence 2, Appli
7	533.5	16.0	533	1	US-07-952-800-2	Sequence 2, Appli
8	530.5	15.9	448	2	US-09-949-016-8178	Sequence 8178, App
9	530.5	15.9	462	1	US-08-592-383-2	Sequence 2, Appli
10	530.5	15.9	462	1	US-08-095-728B-4	Sequence 4, Appli
11	530.5	15.9	462	4	PCY-US92-02320A-4	Sequence 4, Appli
12	530.5	15.9	525	2	US-08-764-870-7	Sequence 7, Appli
13	530.5	15.9	525	2	US-08-980-115-7	Sequence 7, Appli
14	530.5	15.9	533	2	US-08-216-592A-4	Sequence 4, Appli
15	530.5	15.9	577	2	US-09-949-016-11572	Sequence 11572, A
16	527.5	15.8	462	6	5171671-2	Patent No. 5171671
17	525.5	15.7	446	1	US-07-952-800-4	Sequence 4, Appli
18	524.5	15.7	448	2	US-08-216-592A-2	Sequence 2, Appli
19	516	15.5	403	1	US-08-592-383-4	Sequence 4, Appli
20	502	15.0	454	2	US-09-949-016-11665	Sequence 11665, A
21	502	15.0	462	1	US-08-336-408B-2	Sequence 2, Appli
22	502	15.0	462	2	US-08-764-870-6	Sequence 6, Appli
23	502	15.0	462	2	US-08-980-115-6	Sequence 6, Appli
24	502	15.0	462	2	US-10-329-668-10	Sequence 10, Appli
25	502	15.0	462	2	US-09-590-447-4	Sequence 4, Appli
26	502	15.0	462	4	PCY-US91-00399-2	Sequence 2, Appli
27	500.5	15.0	503	2	US-09-949-016-9851	Sequence 9851, App

168	Db	LHNFHQNVATTHMLEQRKTPVSRLSLSLSPFKQSPGPTVSSQCMFQDGLPHVPMNPAPAG	221
208	Qy	GHLGLGYDPTAAALSLPLGAAAAAGSQAAALSHSPYGLP-LAKRAAPLAFPLGLTPSP	266
228	Db	SHFV-----VDGQTFAPVNPPIRKSPASMGFPGLQI:--GH	258
267	Qy	ASSLLGESPSLSPSPSSSSSGEGTCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNKY	326
259	Db	ASQLL--DTQVPSPPSRGSPSNEGLCAVCGDNAACQHYGVRTCEGCKGFFKRTVQKNKY	316
327	Qy	VCLANKKCPVDKRRNRNCOYCRFOKCLSVGMVKEVVRTDSLKRRGRRLPSPKPSPLQOBP	386
317	Db	VCLANKKCPVDKRRNRNCOYCRFOKCLAVGMVKEVVRTDSLKRRGRRLPSPKPS-----P	371
387	Qy	SQSPSPSPPICMNALVRALTDSTP--RDLDYSRY-CPDQAAAGTDAEHVQOQFYNLLTA	443
372	Db	QEPSPPSPVSLISALVRAHVDSNPAMTSLDYSRFQANPDYQMSGDDTQHIOQFVLLTG	431
444	Qy	SIDVRSWAEEKIPGFTLPKBDQTLILIESAFLEFLVLRLSIRSNATAEDKFVFCNGLVLHR	503
432	Db	SMEITIRWAEEKIPGFADLPKADQPLLPEFALEFLVLRSLAVRSNPVEGKLIFCNGVWLHR	491
504	Qy	LOCLRGGEWLDSIKDSLNLQSLNLSDIOALACLALSLSMIRTERHGLKEPKRVEELCNKIT	563
492	Db	LQCVRGFEWIDSIVFSSNLQNNNIDISAFSCIAALAMVTERHGLKEPKRVEELQNKIV	551
564	Qy	SSLKXDHQ--SKGQALEPTE-SKVLGALVELRKICTLGLQRTFYLKLEDLVSPPSIIDKLF	620
552	Db	NCLKDHTFNNGLNRPNYLSKLGLKPELKTCTQGLQRTFYLKLEDLVPPPAIIDKLF	611
621	Qy	LDTLPPF 626	
612	Db	LDTLPPF 617	

RESULT 5

US-09-949-016-10263

; Sequence 10263, Application US/09949016

; Patent No. 6812339

; GENERAL INFORMATION:

; APPLICANT: VENTER, J. Craig et al.

; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THERE

; FILE REFERENCE: CL001307

; CURRENT APPLICATION NUMBER: US/09/949,016

; PRIOR FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

; PRIOR APPLICATION NUMBER: 60/231,498

; PRIOR FILING DATE: 2000-09-08

; NUMBER OF SEQ ID NOS: 207012

; SOFTWARE: FastSeq for Windows Version 4.0

; SEQ ID NO 10263

; LENGTH: 641

; TYPE: PRT

; ORGANISM: Human

US-09-949-016-10263

Query Match 41.0%; Score 1367; DB 2; Length 641;

Best Local Similarity 47.5%; Pred. No. 4.8e-97;

Matches 317; Conservative 74; Mismatches 165; Indels 112; Gaps 23;

Qy	1	MPCVQAOY---SSPSGGSSVAAQYTSSEYVTEIMNPDYTKLTMDLGSTEITATATSLPS	57
Db	44	MPCIQAOYGTAPSPGPRDHLA-----SDLPTEPFIKPTMDLASPEAAPAAPTALPS	95
Qy	58	ISTFVFGYSNYELKPSCVYQMO---RPLIKVEGRAPSVYHHHHHHHHHHHHHHHHHQHQ	114
Db	96	FTFMIDYGTGEPD---TFLYDLPGTQVQPCSSASSSSSSSSSSSSSSSSSSSSSSSSSS	152
Qy	115	PSIP-PASSPEDEVLTPSTSMFYKQSPSS--TPTTTPAF-PPQAG-----	153

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153 GCGPGLSPGVDEALSSGSDYSGPCAPSSTFSQPQLSPWDGSGFHPSQTYEG 212
154 -ALWDEALPSAGCIAPGLDPPMKAVETVAGARFPLFHFKSPSPHPAPSPAGGHLG 212
213 LRAMTEQLPKASG-----PPQ-----PPAFFSFSPTGSPS----- 244
213 YDPTAAALSL-PLGAAAAAGSQAALSHPHYGLPLAKRAAPLAPPLGLTPSPASSLL 271
245 ---LAQSPKLPSPQATHQLG-----EGESYSM-----PTAPPGL-----APTSPLH 284
272 G-----ESPSPSPSPSSSG---EGTCVACGNAACQHYGVRTCEGCKGFFKRTVQKNK 325
285 GSGILDTP-VYSTKARSGAPGSEGRCAVCGDNASCQHYGVRTCEGCKGFFKRTVQKNK 343
326 YYCLANKCPVDKRRNRQCYCRQKCLSVGMVKEVVRTDSLKGRRLPLSPKPSPLQOE 385
344 YICLANKCPVDKRRNRQCYCRQKCLAVGMVKEVVRTDSLKGRRLPLSPKPKQP---- 399
386 PSQSPSPSPICMNAALVRLTSTP--RDLDYSRYCPTDQAAG-TDAEHVQOQFYNLLT 442
400 -----PDASPAWLLTSLVRAHLDSGFSTAKLDYSKFQELVLPHFGKEDAGDVQOQFYDLLS 454
443 ASIDVSRSAEKIPGFTDLPKEDQTLLESAPLELFLVRLSIRSNATBDKPFVFCNGLVLH 502
455 GSLEWIRKWAELKIPGFAELSPADQDLLESAPLELFLVRLSIRSNATBDKPFVFCNGLVLH 514
503 RIQCLRGGEWLDSTKPSLNOSLNLDIQAALCISALSMITERHGLKPKRVEBLCKNI 562
515 RIQCARGFGDWDSTLAFSRLSLVLDVPAFACLSALVLTDRHGLQEPREVRVEELQRI 574
563 TSSLKHQSKGALPTE-----SKVLGALVELRKICTLGLQRIFYVLELDLVSPLIIDK 618
575 ASCLKEHVA-AVAGEPQAPASCLSLGLKPLRTLTCTQGLQRIFYVLELDLVSPLIIDK 633
619 LFLDTLPP 626
634 IFMDTLPP 641

RESULT 6
US-09-277-078-2
; Sequence 2, Application US/09277078
; Patent No. 6312949
; GENERAL INFORMATION:
; APPLICANT: Sakurada, Kazuhiro
; APPLICANT: Palmer, Theo
; TITLE OF INVENTION: REGULATION OF TYROSINE HYDROXYLASE
; FILE REFERENCE: 07251/031001
; CURRENT APPLICATION NUMBER: US/09/277,078
; CURRENT FILING DATE: 1999-03-26
; NUMBER OF SEQ ID NOS: 60
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 300
; TYPE: PRT
; ORGANISM: Rattus norvegicus
US-09-277-078-2
```

Query Match 19.8%; Score 659.5; DB 2; Length 300;
Best Local Similarity 41.6%; Pred. No. 6.6e-43;
Matches 151; Conservative 41; Mismatches 74; Indels 97; Gaps 13;

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QY 1 MPCVQAQYSPSPGSGSAAQTY-----SSRYTTEIMNPDYTKLTMDLGSTEITATATTSIP 56
DB 1 MPCVQAQYSSPQSGASPASQSYSHSSGEYSDFLTPFVKESMDLTWTEI--TATTSIP 58
QY 57 STSTFVGEYSNYELKPSCVYQM----QRPLKVEGRAPSYHHHHHHHHHHHHHHHHHH 112
DB 59 SPSTFMDNYSITGVDKPPCLYQWPLSGQGSQSIKVEDIQMHNTQOQSH----- 105
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113 QQPSTIPASSPEDEVLIP-STSMYFKQSPSPSTPTTAPPPQAGALWDEALPSAPGCIAPGP 171
106 ---LPPQSS---EEMPHSGSVYTKPSPTTPTPGFQVQHS PMWD-----PGS 148
172 LLDPEMKAVPT-----VAGARFPLFHFKSPSPHPPA-----PSPAG 207
149 LHNPHQNVATTHMIEQRKTPVSRSLSLFSFKQSPPGTVPVSSCQMRFGDGLHVPMMNPEPAG 208
208 GHHLGYDTAAALSLPLGAAAAAGSQAALSHPHYGLP-LAKRAAPLAPPLGLTPSPPT 266
209 SHV-----LDGQTFAVNPPIRKPSMGGFGLQI---GH 239
267 ASSLLGESPSLPPSSSSSGEGTCVACGNAACQHYGVRTCEGCKGFFKRTVQKNK 326
240 ASQLL--DTQVPSPPSRGSPSNEGLCAVCGNAACQHYGVRTCEGCKGFFKRTVQKNK 297
327 VCL 329
298 VCL 300

RESULT 7
US-07-952-800-2
; Sequence 2, Application US/07952800
; Patent No. 5403925
; GENERAL INFORMATION:
; APPLICANT: OZATO, KEIHO
; TITLE OF INVENTION: A NEW MEMBER OF THE NUCLEAR HORMONE
; NUMBER OF SEQUENCES: 4
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: TOWNSEND AND TOWNSEND
; STREET: 1 MARKET PLAZA, STEUART TOWER, SUITE 2000
; CITY: SAN FRANCISCO
; STATE: CA
; COUNTRY: USA
; ZIP: 94105
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: PatentIn Release #1.0, Version #1.25
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/07/952,800
; FILING DATE: 19920928
; CLASSIFICATION: 435
; ATTORNEY/AGENT INFORMATION:
; NAME: Weber, Kenneth A
; REGISTRATION NUMBER: 31,677
; REFERENCE/DOCKET NUMBER: 15280-21-1
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: 415-543-9600
; TELEFAX: 415-543-5043
; INFORMATION FOR SEQ ID NO: 2:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 533 amino acids
; TYPE: AMINO ACID
; TOPOLOGY: linear
; MOLECULE TYPE: protein
US-07-952-800-2
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Query Match 16.0%; Score 533.5; DB 1; Length 533;
Best Local Similarity 29.7%; Pred. No. 7.3e-33;
Matches 151; Conservative 70; Mismatches 189; Indels 99; Gaps 17;

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QY 118 PPASSPEDEVLIPSTSMYFKQSPSPSTPTTAPPPQAGALWDEALPSAPGCIAPGLDPPM 177
DB 83 PDSSSPNP--LP-----QGVPPSPSPGPPPLPSTA-----PSLGGSGAPPP---PPM 124
QY 178 KAVPTVAGARPLFHFKSPSPHPAPSPAGGHLGYDPTAAALSLPLGAAAAAGSQA 237
DB 125 P--PPPLGSPFPVVISMSGSGFLPPPPAPPGFSGPVSSPQINSVSLPGGSG----- 174
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Result No.	Score	Query		DB	ID	Description
		Match	Length			
1	3337	100.0	626	4	US-10-608-863-2	Sequence 2, Appli
2	3333	99.9	626	3	US-09-853-386-64	Sequence 64, Appl
3	3333	99.9	626	4	US-10-414-080-14	Sequence 14, Appl
4	3316	99.4	626	3	US-09-853-386-65	Sequence 65, Appl
5	3316	99.4	626	3	US-09-853-386-96	Sequence 96, Appl
6	3316	99.4	626	5	US-10-659-004-116	Sequence 116, Appl
7	3299.5	98.9	625	3	US-09-853-386-63	Sequence 63, Appl
8	3299.5	98.9	625	4	US-10-414-080-13	Sequence 13, Appl
9	3133.5	93.9	643	3	US-09-853-386-70	Sequence 70, Appl
10	3133.5	93.9	643	4	US-10-414-080-17	Sequence 17, Appl
11	3123	93.6	587	4	US-10-755-889-64	Sequence 64, Appl
12	3074	92.1	628	3	US-09-853-386-66	Sequence 66, Appl
13	3074	92.1	628	3	US-09-853-386-68	Sequence 68, Appl
14	3074	92.1	628	3	US-09-853-386-73	Sequence 73, Appl
15	3074	92.1	628	4	US-10-005-169-4	Sequence 4, Appli
16	3074	92.1	628	4	US-10-414-080-15	Sequence 15, Appl
17	3054.5	91.5	627	3	US-09-853-386-67	Sequence 67, Appl
18	3054.5	91.5	627	4	US-10-005-169-2	Sequence 2, Appli
19	2099.5	62.9	446	3	US-09-853-386-69	Sequence 69, Appl
20	2099.5	62.9	446	4	US-10-414-080-16	Sequence 16, Appl
21	1751	52.5	598	3	US-09-853-386-37	Sequence 37, Appl
22	1751	52.5	598	3	US-09-853-386-38	Sequence 38, Appl
23	1751	52.5	598	3	US-09-853-386-39	Sequence 39, Appl
24	1751	52.5	598	3	US-09-853-386-41	Sequence 41, Appl
25	1751	52.5	598	4	US-10-205-951-2	Sequence 2, Appli
26	1751	52.5	598	4	US-10-205-951-75	Sequence 75, Appl
27	1751	52.5	598	4	US-10-205-951-79	Sequence 79, Appl


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Db      301  COHYGVRTCEGCKGFFKRTVQNAKYVCLANKNCVPDKRRNRNCQVCRQKCLSLVGVMWKE 360
QY      361  VVRTSLKGRRGRCLPSKPKSPLOQEPSPQSPSPPICMNNALVRALTDTSTPRDLDSRYC 420
Db      361  VVRTSLKGRRGRCLPSKPKSPLOQEPSPQSPSPPICMNNALVRALTDTSTPRDLDSRYC 420
QY      421  PTDOAAAGTDAEHVQOQFYNNLTASIDVSRSWAEKIPGFTDLPKEDOTLLIESAFLELFWL 480
Db      421  PTDOAAAGTDAEHVQOQFYNNLTASIDVSRSWAEKIPGFTDLPKEDOTLLIESAFLELFWL 480
QY      481  RLSIRSNTAEDRFVFCNGLVHLRLOCLRGFGEWLDSIKDFSNLQSLNLDIOALACLAL 540
Db      481  RLSIRSNTAEDRFVFCNGLVHLRLOCLRGFGEWLDSIKDFSNLQSLNLDIOALACLAL 540
QY      541  SMITERHGLKEPRVEELCNKITSLSKHQSKGOALEPTESKVLGALVELRKICTIGLQR 600
Db      541  SMITERHGLKEPRVEELCNKITSLSKHQSKGOALEPTESKVLGALVELRKICTIGLQR 600
QY      601  IFYLKLEDLVSPSSIIDKFLDTPPF 626
Db      601  IFYLKLEDLVSPSSIIDKFLDTPPF 626

RESULT 4
US-09-853-386-65
; Sequence 65, Application US/09853386
; Patent No. US20020049151A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Evelyn
; APPLICANT: Bresnihan, Barry
; APPLICANT: Connely, Orla
; APPLICANT: Fitzgerald, Oliver
; TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR
; FILE REFERENCE: P01972U1
; CURRENT APPLICATION NUMBER: US/09/853,386
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/203645
; PRIOR FILING DATE: 2000-05-12
; NUMBER OF SEQ ID NOS: 153
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 65
; LENGTH: 626
; TYPE: PRT
; ORGANISM: HUMAN
US-09-853-386-65

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	Query Match	99.4%;	Score 3316;	DB 3;	Length 626;
	Best Local Similarity	99.4%;	Pred. No. 6.6e-216;		
	Matches 622; Conservative	1;	Mismatches 3;	Indels	0; Gaps 0;
Qy	1 MPCVQAQYSPSPGSSVAAQYTSSEYYTEINMPDYTKLTMDLGSTETATATTSLPSISIT	60			
Db	1 MPCVQAQYSPSPGSSVAAQYTSSEYYTEINMPDYTKLTMDLGSTETATATTSLPSISIT	60			
Qy	61 FVEGVSSNYELKPCVCVMQRPLIKVREGRAPSYHHHHHHHHHHHHHQQHQOQPSPTPPA	120			
Db	61 FVEGVSSNYELKPCVCVMQRPLIKVREGRAPSYHHHHHHHHHHHHHQQHQOQPSPTPPA	120			
Qy	121 SSPDEVLPTSTMVFKQSPSPPTPTTAPFPQAGALWDEALPSPAGCTAPGLLDPMPKAV	180			
Db	121 SSPDEVLPTSTMVFKQSPSPPTPTTAPFPQAGALWDEALPSPAGCTAPGLLDPMPKAV	180			
Qy	181 PTVAGARFPLPHFKPSPHPPPAPSPAGCGHLGYDPTAAALSPLGAAAAAGSQAALLES	240			
Db	181 PTVAGARFPLPHFKPSPHPPPAPSPAGCGHLGYDPTAAALSPLGAAAAAGSQAALLEG	240			
Qy	241 HPYGLPLAKRAAPLAFFPLGLTPSTASSLLGESPSLPSPRSSSGEGTCACVGDNAA	300			
Db	241 HPYGLPLAKRAAPLAFFPLGLTPSTASSLLGESPSLPSPRSSSGEGTCACVGDNAA	300			
Qy	301 CQHVGVTCECKGFKKRTVQNKAHYCLANKNCPVDKRNRNRCQYCRFQKCLSVGMVKE	360			

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301 CQHYGVRTCEGCKGFFKRTVQNAKYVCLANKNCQVDRRRNRNCQYCRFQKCLSVGMVKE 360
361 VVRTDSLKGRGRULPSKPKSPLOQEPSQSPSPPPICMMNALVRALTDSTPRDLDYSRYC 420
361 VVRTDSLKGRGRULPSKPKSPLOQEPSQSPSPPPICMMNALVRALTDSTPRDLDYSRYC 420
421 PTDQAAAGTDAEHVQQFYNNLLTASIDVRSWAERIPGFTDLPKEDQTLTIESAFLELVL 480
421 PTDQAAAGTDAEHVQQFYNNLLTASIDVRSWAERIPGFTDLPKEDQTLTIESAFLELVL 480
481 RLSTRSNTAEDKFFVNCGLVHLRLOCLRGEGEWLDSIKDPSINQSLNLDIOALACLSAL 540
481 RLSTRSNTAEDKFFVNCGLVHLRLOCLRGEGEWLDSIKDPSINQSLNLDIOALACLSAL 540
541 SMITERHGLKEPKRVEELCNKTISSLKDHOSKGOALEPTESKVLGALVELRKICTLGLQR 600
541 SMITERHGLKEPKRVEELCNKTISSLKDHOSKGOALEPTESKVLGALVELRKICTLGLQR 600
601 IFYKLKLEDLVSPPSIIDKLFDLTLPP 626
601 IFYKLKLEDLVSPPSIIDKLFDLTLPP 626

RESULT 5
US-09-853-386-96
; Sequence 96, Application US/09853386
; Patent No. US20020049151A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Evelyn
; APPLICANT: Bresnihan, Barry
; APPLICANT: Conneely, Orla
; APPLICANT: Fitzgerald, Oliver
; TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR
; TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors
; FILE REFERENCE: P01972US1
; CURRENT APPLICATION NUMBER: US/09/853,386
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/203645
; PRIOR FILING DATE: 2000-05-12
; NUMBER OF SEQ ID NOS: 153
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 96
; LENGTH: 626
; TYPE: PRT
; ORGANISM: HUMAN
US-09-853-386-96

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Query Match	99.4%;	Score 3316;	DB 3;	Length 626;
Best Local Similarity	99.4%;	Pred. No. 6.6e-216;		
Matches 622;	Conservative	1;	Mismatches 3;	Indels 0; Gaps 0;
Qy	1	MPCVQAQYSPSPGGSSYAAQTSYSEYTTIMNPDYTKLTMDLGS TEITATTATTSLS	PS	120
Db	1	MPCVQAQYSPSPGGSSYAAQTSYSEYTTIMNPDYTKLTMDLGS TEITATTATTSLS	PS	120
Qy	61	FVSGYSNVELKPSCVYQMORPLIKVEGRAPSYHHHHHHHHHHHHH	QHQHQ	120
Db	61	FVSGYSNVELKPSCVYQMORPLIKVEGRAPSYHHHHHHHHHHHHH	QHQHQ	120
Qy	121	SSPEDEVLPSTSMYFKQSPSPSTPTTAPPPQAGALWDEALPSAP	PCIAPGL	180
Db	121	SSPEDEVLPSTSMYFKQSPSPSTPTTAPPPQAGALWDEALPSAP	PCIAPGL	180
Qy	181	PTVAGARFPLEHFHKSPSPPPPPAPSPAGGHHLGYDPTAAALSL	PLGAAAAAGSQA	240
Db	181	PTVAGARFPLEHFHKSPSPPPPPAPSPAGGHHLGYDPTAAALSL	PLGAAAAAGSQA	240
Qy	241	HPYGLFLAKRAAPLAPPPPLGLTPTSTAGSLLGESPLSPSPSR	SSSGEGTC	300
Db	241	HPYGLFLAKRAAPLAPPPPLGLTPTSTAGSLLGESPLSPSPSR	SSSGEGTC	300
Qy	301	CQHYGVRTCCEGCKGFFKRTVQKNAKYVICLANKNC	PFVKRRNR	360

301	COHGVRTCEBCKGFFKRTVQKNAKYCLANKNCVPDGRNRRCQYCRFPQKCLSVGMWKE	360
361	VVRTDSLKRRGRILSPKPSPLQOEPPSQSPSPPICMNNALVRALTDTSTPRDLDSRYC	420
361	VVRTDSLKRRGRILSPKPSPLQOEPPSQSPSPPICMNNALVRALTDTSTPRDLDSRYC	420
421	PTDQAAAGTDAEHVOQFYNLLTASIDVSRSWAEKIPGFTDLPKEOOTLLIESAFLELFWL	480
421	PTDQAAAGTDAEHVOQFYNLLTASIDVSRSWAEKIPGFTDLPKEOOTLLIESAFLELFWL	480
481	RLSIRSNATAEDKFVFCNGLVHLRLQCLRGFGEWLDSIKDFSLNQLSLNDLIQALACL	540
481	RLSIRSNATAEDKFVFCNGLVHLRLQCLRGFGEWLDSIKDFSLNQLSLNDLIQALACL	540
541	SMITRGLKLPKPVVEELCNKITSSLKHQSKQALEPTESKVLGNALVELRKICVTIGLOR	600
541	SMITRGLKLPKPVVEELCNKITSSLKHQSKQALEPTESKVLGNALVELRKICVTIGLOR	600
601	IFYLKLEDLVSPSSIIDKFLDITLPP	626
601	IFYLKLEDLVSPSSIIDKFLDITLPP	626

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RESULT 6
US-10-659-004-116
; Sequence 116, Application US/10659004
; Publication No. US20050048507A1
; GENERAL INFORMATION:
; APPLICANT: Zhong et al.
; TITLE OF INVENTION: THERAPEUTIC POLYPEPTIDES, NUCLEIC ACIDS ENCODING SAME, AND METHODS OF USE
; FILE REFERENCE: 21402-608
; CURRENT APPLICATION NUMBER: US/10/659,004

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1 CURRENT FILING DATE: 2003-09-09
2
3 PRIOR APPLICATION NUMBER: 60/295,607
4
5 PRIOR FILING DATE: 2001-06-04
6
7 PRIOR APPLICATION NUMBER: 60/295,661
8
9 PRIOR FILING DATE: 2001-06-04
10
11 PRIOR APPLICATION NUMBER: 60/296,404
12
13 PRIOR FILING DATE: 2001-06-06
14
15 PRIOR APPLICATION NUMBER: 60/296,418
16
17 PRIOR FILING DATE: 2001-06-06
18
19 PRIOR APPLICATION NUMBER: 60/297,414
20
21 PRIOR FILING DATE: 2001-06-11
22
23 PRIOR APPLICATION NUMBER: 60/297,567
24
25 PRIOR FILING DATE: 2001-06-12
26
27 PRIOR APPLICATION NUMBER: 60/298,285
28
29 PRIOR FILING DATE: 2001-06-14
30
31 PRIOR APPLICATION NUMBER: 60/298,556
32
33 PRIOR FILING DATE: 2001-06-15
34
35 PRIOR APPLICATION NUMBER: 60/299,949
36
37 PRIOR FILING DATE: 2001-06-21
38
39 PRIOR APPLICATION NUMBER: 60/300,883
40
41 PRIOR FILING DATE: 2001-06-26
42
43 Remaining Prior Application data removed - See File Wrapper or PALM.
44
45 NUMBER OF SEQ ID NOS: 187
46
47 SOFTWARE: CuraSeqList version 0.1
48
49 SEQ ID NO 116
50
51 LENGTH: 626
52
53 TYPE: PRT
54
55 ORGANISM: Homo sapiens
56
57 US-10-659-004-116

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	Query Match	99.4‡; Score 3316; DB 5; Length 626;
	Best Local Similarity	99.4‡; Pred. No. 6.6e-216;
	Matches 622; Conservative 1;	Mismatches 3; Indels 0; Gaps 0;
Qy	1 MPCVQAQYSPSPGSSAAQTYSSEYTEINMPDYTKLTMDLGSTEITATATSLPSIST	60
Dd	1 MPCVQAQYSPSPGSSAAQTYSSEYTEINMPDYTKLTMDLGSTEITATATSLPSIST	60
Qy	61 FVEGYSSNYELKPCSVTQMORPLIKVBEGRAPSVHHHHHHHHHHHQQOHOCPSTPPA	120
Dd	61 FVEGYSSNYELKPCSVTQMORPLIKVBEGRAPSVHHHHHHHHHHHQQOHOCPSTPPA	120

Qy	121	SSPDEVL	PSTSMYFKOSP	PSTPTT	PAPPQAGAL	WDAL	PSAP	CIAPG	PLDPP	PKAV	180
Db	121	SSPDEVL	PSTSMYFKOSP	PSTPTT	PAPPQAGAL	WDAL	PSAP	CIAPG	PLDPP	PKAV	180
Qy	181	PTVAGAR	FFLPHFKP	SPHP	PAPG	AGHHLGYD	PTAAAL	SLPLG	AAAAAGS	QAAAL	240
Db	181	PTVAGAR	FFLPHFKP	SPHP	PAPG	AGHHLGYD	PTAAAL	SLPLG	AAAAAGS	QAAAL	240
Qy	241	HPYGLP	LAKRAAP	LAFPLGL	TPSTASS	LLGES	PSLPS	PPSR	SSSGEGT	CAVCGD	NAA
Db	241	HPYGLP	LAKRAAP	LAFPLGL	TPSTASS	LLGES	PSLPS	PPSR	SSSGEGT	CAVCGD	NAA
Qy	301	COHGYV	RTCEG	CKGFK	RTVQ	KNKYVCL	ANKNC	PVDK	RRNR	COYCR	FQKCL
Db	301	COHGYV	RTCEG	CKGFK	RTVQ	KNKYVCL	ANKNC	PVDK	RRNR	COYCR	FQKCL
Qy	361	VVRTD	SLKRR	GR	LPSK	PKSPLO	QEPSP	PPSP	ICMNNAL	VRALT	DSTPRDL
Db	361	VVRTD	SLKRR	GR	LPSK	PKSPLO	QEPSP	PPSP	ICMNNAL	VRALT	DSTPRDL
Qy	421	PTDQAA	AGTDA	EHVQ	QFVNL	LITAST	IVDS	RSAE	KIPG	FTDLP	KBDQ
Db	421	PTDQAA	AGTDA	EHVQ	QFVNL	LITAST	IVDS	RSAE	KIPG	FTDLP	KBDQ
Qy	481	RLSIRS	NTAED	KPFC	NG	LVLH	RQLCG	FG	EWLDS	IKD	FS
Db	481	RLSIRS	NTAED	KPFC	NG	LVLH	RQLCG	FG	EWLDS	IKD	FS
Qy	541	SMIT	ERGL	KEP	KVEE	LCKN	KITSSL	KDHQ	SGQAL	EPTES	KV
Db	541	SMIT	ERGL	KEP	KVEE	LCKN	KITSSL	KDHQ	SGQAL	EPTES	KV
Qy	601	IFYLK	LED	LVSP	PPSI	IDK	LFD	TL	PP	626	
Db	601	IFYLK	LED	LVSP	PPSI	IDK	LFD	TL	PP	626	

RESULT 7

US-09-853-386-63

; Sequence 63, Application US/09853386

; Patent No. US20020049151A1

; GENERAL INFORMATION:

RESULT 7
US-09-853-386-63
; Sequence 63, Application US/09853386
; Patent No. US20020049151A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Evelyn
; APPLICANT: Bresnihan, Barry
; APPLICANT: Conneely, Orla
; APPLICANT: Fitzgerald, Oliver
; TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR
; TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors
; FILE REFERENCE: P01972US1
; CURRENT APPLICATION NUMBER: US/09/853,386
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/203645
; PRIOR FILING DATE: 2000-05-12
; NUMBER OF SEQ ID NOS: 153
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 63
; LENGTH: 625
; TYPE: PRT
; ORGANISM: HUMAN
US-09-853-386-63

Query Match		98.9%; Score 3299.5; DB 3; Length 625;
Best Local Similarity		99.2%; Pred.No. 8.6e-215;
Matches 621; Conservative	1; Mismatches 3; Indels 1; Gaps 1;	
Qy	1	MPCVQAQYSPSPGSSVAAQTYSSEYTEIMNPDYTKLTMDLGSTETTATATTSLPSIST 60
Dd	1	MPCVQAQYSPSPGSSVAAQTYSSEYTEIMNPDYTKLTMDLGSTETTATATTSLPSIST 60
Qy	61	FVEGYSNVELKPSCVYOMORPLIKVEEGRAPSYHHHHHHHHHHHHHHHHHQQHQFSPPIPA 120
Dd	61	FVEGYSNVELKPSCVYOMORPLIKVEEGRAPSYHHHHHHHHHHHHHHHHHQQHQFSPPIPA 120

121 SSPDEVLPSTSMYFKQSPSPSTPTTAPPPQAGALWDEALPSAPGCIAPGPIIDPPMKAV 180
121 SSPDEVLPSTSMYFKQSPSPSTPTTAPPPQAGALWDEALPSAPGCIAPGPIIDPPMKAV 180
181 PTVAGARFPLFHFKSPSPHPAPSPAGGHHILGYDPTAAALSLPLGAAAAAGSQAALLES 240
181 PTVAGARFPLFHFKSPSPHPAPSPAGGHHILGYDPTAAALSLPLGAAAAAGSQAALLES 240
241 HPYGLPLAKRAAPLAPPLGLTPSTASSLIGESPLSPSPSSSSGEGTCAVCGDNAA 300
241 HPYGLPLAKRAAPLAPPLGLTPSTASSLIGESPLSPSPSSSSGEGTCAVCGDNAA 300
301 COHGVRTCEGCKGFFKRTVQKNAKYVCLANKNCVDRKRRNRCCYCRFKCLSVGMWKE 360
301 COHGVRTCEGCKGFFKRTVQKNAKYVCLANKNCVDRKRRNRCCYCRFKCLSVGMWKE 360
361 VVRTDSLKGRGRRLSPKSPKPLQEPSPSPSPPICMNNALVRALTDTSTPRDLDSRYC 420
361 VVRTDSLKGRGRRLSPKSPKPLQEPSPSPSPPICMNNALVRALTDTSTPRDLDSRYC 420
421 PTQAAAGTDAHVQOQFYNLLTASIDVRSWAERIPGFTDLPKEDQTLTLLIESAFLEL-VL 480
421 PTQAAAGTDAHVQOQFYNLLTASIDVRSWAERIPGFTDLPKEDQTLTLLIESAFLEL-VL 479
481 RLSIRNTAEKDFVFCNGVLHRLQCLRGFGEWLDISKDFSLNLSLNDLQALACTSAL 540
480 RLSIRNTAEKDFVFCNGVLHRLQCLRGFGEWLDISKDFSLNLSLNDLQALACTSAL 539
541 SMITERHGLKBPKEVEELCNKITSSLDKHQSKGQALEPTESKVLGALVELRKICTLGLQR 600
540 SMITERHGLKBPKEVEELCNKITSSLDKHQSKGQALEPTESKVLGALVELRKICTLGLQR 599
601 IFYKLKEDLVSPSPSIIDKFLDITLPP 626
600 IFYKLKEDLVSPSPSIIDKFLDITLPP 625

RESULT 8

US-10-414-080-13
; Sequence 13, Application US/10414080
; Publication No. US20030220288A1
; GENERAL INFORMATION:
; APPLICANT: MULLICAN, SHANNON E.
; APPLICANT: CONNELLY, ORLA M.
; APPLICANT: MILBRANDT, JEFFREY
; TITLE OF INVENTION: NOR-1 AND NUR77 NUCLEAR RECEPTORS AS TARGETS FOR
; TITLE OF INVENTION: ANTI-LEUKEMIA THERAPY
; FILE REFERENCE: P02454US1
; CURRENT APPLICATION NUMBER: US/10/414,080
; PRIOR FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: 60/373,238
; PRIOR FILING DATE: 2002-04-17
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 13
; LENGTH: 625
; TYPE: PRT
; ORGANISM: Homo sapiens
US-10-414-080-13

Query Match 98.9%; Score 3299.5; DB 4; Length 625;
Best Local Similarity 99.2%; Pred. No. 8.6e-215;
Matches 621; Conservative 1; Mismatches 3; Indels 1; Gaps 1;

Qy 1 MPCVQAYSPSPGSSVAAQYISSEYTTIMNPDYTKLTMDLGSSTETATATTSLSPIST 60
Db 1 MPCVQAYSPSPGSSVAAQYISSEYTTIMNPDYTKLTMDLGSSTETATATTSLSPIST 60
Qy 61 FVEGYSSNYELKPCSCVYQMORPLIKVEGRAPSYHHHHHHHHHHHHHHHHHHHHHHHH 120
Db 61 FVEGYSSNYELKPCSCVYQMORPLIKVEGRAPSYHHHHHHHHHHHHHHHHHHHHHHHH 120

Qy 121 SSPDEVLPSTSMYFKQSPSPSTPTTAPPPQAGALWDEALPSAPGCIAPGPIIDPPMKAV 180
Db 121 SSPDEVLPSTSMYFKQSPSPSTPTTAPPPQAGALWDEALPSAPGCIAPGPIIDPPMKAV 180
Qy 181 PTVAGARFPLFHFKSPSPHPAPSPAGGHHILGYDPTAAALSLPLGAAAAAGSQAALLES 240
Db 181 PTVAGARFPLFHFKSPSPHPAPSPAGGHHILGYDPTAAALSLPLGAAAAAGSQAALLES 240
Qy 241 HPYGLPLAKRAAPLAPPLGLTPSTASSLIGESPLSPSPSSSSGEGTCAVCGDNAA 300
Db 241 HPYGLPLAKRAAPLAPPLGLTPSTASSLIGESPLSPSPSSSSGEGTCAVCGDNAA 300
Qy 301 COHGVRTCEGCKGFFKRTVQKNAKYVCLANKNCVDRKRRNRCCYCRFKCLSVGMWKE 360
Db 301 COHGVRTCEGCKGFFKRTVQKNAKYVCLANKNCVDRKRRNRCCYCRFKCLSVGMWKE 360
Qy 361 VVRTDSLKGRGRRLSPKSPKPLQEPSPSPSPPICMNNALVRALTDTSTPRDLDSRYC 420
Db 361 VVRTDSLKGRGRRLSPKSPKPLQEPSPSPSPPICMNNALVRALTDTSTPRDLDSRYC 420
Qy 421 PTQAAAGTDAHVQOQFYNLLTASIDVRSWAERIPGFTDLPKEDQTLTLLIESAFLEL-VL 480
Db 421 PTQAAAGTDAHVQOQFYNLLTASIDVRSWAERIPGFTDLPKEDQTLTLLIESAFLEL-VL 479
Qy 481 RLSIRNTAEKDFVFCNGVLHRLQCLRGFGEWLDISKDFSLNLSLNDLQALACTSAL 540
Db 480 RLSIRNTAEKDFVFCNGVLHRLQCLRGFGEWLDISKDFSLNLSLNDLQALACTSAL 539
Qy 541 SMITERHGLKBPKEVEELCNKITSSLDKHQSKGQALEPTESKVLGALVELRKICTLGLQR 600
Db 540 SMITERHGLKBPKEVEELCNKITSSLDKHQSKGQALEPTESKVLGALVELRKICTLGLQR 599
Qy 601 IFYKLKEDLVSPSPSIIDKFLDITLPP 626
Db 600 IFYKLKEDLVSPSPSIIDKFLDITLPP 625

RESULT 9

US-09-853-386-70
; Sequence 70, Application US/09853386
; Patent No. US20020049151A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Evelyn
; APPLICANT: Bresnihan, Barry
; APPLICANT: Connelly, Orla
; APPLICANT: Fitzgerald, Oliver
; TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR
; TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors
; FILE REFERENCE: P01972US1
; CURRENT APPLICATION NUMBER: US/09/853,386
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/203645
; PRIOR FILING DATE: 2000-05-12
; NUMBER OF SEQ ID NOS: 153
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 70
; LENGTH: 643
; TYPE: PRT
; ORGANISM: Sus scrofa
US-09-853-386-70

Query Match 93.9%; Score 3133.5; DB 3; Length 643;
Best Local Similarity 92.4%; Pred. No. 1.5e-203;
Matches 594; Conservative 10; Mismatches 22; Indels 17; Gaps 3;

Qy 1 MPCVQAYSPSPGSSVAAQYISSEYTTIMNPDYTKLTMDLGSSTETATATTSLSPIST 60
Db 1 MPCVQAYSPSPGSSVAAQYISSEYTTIMNPDYTKLTMDLGSSTETATATTSLSPIST 60
Qy 61 FVEGYSSNYELKPCSCVYQMORPLIKVEGRAPSYHHHHHHHHHHHHHHHHHHHHHHHH 110
Db 61 FVEGYSSNYELKPCSCVYQMORPLIKVEGRAPSYHHHHHHHHHHHHHHHHHHHHHHHH 120

Db	179	MKAVPPMAAAARFPiF - FKPSPPHPAPSPAGCGHGLGDP	TAAALSLPLGAAAAAGSQ	237		
Qy	236	AALESHPYGLPLAKRAA	PLAPPLGLTSP	TASSLLGESPSLSPSPSSSSSGEGTCAVC	295	
Db	238	AALEGHPYGLPLAKRTAT	LTATLTPPLGLTASPTASSLLGESPSLSPSPNRSSSSSGEGTCAVC	297		
Qy	296	GDNAACQHYGVRTCEGCKGFFKRTVQKN	KAYCYCLANKNC	PVDKRRNR	COYCRFOKCLSV	355
Db	298	GDNAACQHYGVRTCEGCKGFFKRTVQKN	KAYCYCLANKNC	PVDKRRNR	COYCRFOKCLSV	357
Qy	356	GMWKEVVRTDSLKGRGRGLPKPKSPLOQEPSQSPSP	PPPICMMNALVRAL	TDSTPRDLD	415	
Db	358	GMWKEVVRTDSLKGRGLPKPKSPLOQEPSQSPSP	PPPICMMNALVRAL	TDATPRDLD	417	
Qy	416	YSRYCPTDQAAAGTDAEHVQOQFYNNL	TASIDVSR	SWAEBKIPGFTDLPKEDOTLLIESAFL	475	
Db	418	YSRYCPTDQATAGTDAEHVQOQFYNNL	TASIDVSR	SWAEBKIPGFTDLPKEDOTLLIESAFL	477	
Qy	476	ELFVLRLSIR	SNTAEDKFVFCNGLVHLRLOCLRGFG	EWLDSIKDFSLNLOSLNLDIQAAL	535	
Db	478	ELFVLRLSIR	SNTAEDKFVFCNGLVHLRLOCLRGFG	EWLDSIKDFSLNLOSLNLDIQAAL	537	
Qy	536	CLSALSMT	TERHGLKEPKRVEELCNKITSSLKDHQSHQQA	LEPTBSKVLGALVELRKICT	595	
Db	538	CLSALSMT	TERHGLKEPKRVEELCNKITSSLKDHQSHQQA	LEPTSPKVLRALVELRKICT	597	
Qy	596	LGLQRIFYLKLE	DLVSPSSI	DKLFLDTLPF	626	
Db	598	QGHQRIFYIK	IEDLVSPSP	VDIKFLDTLPF	628	

RESULT 13
US-09-853-386-68
; Sequence 68, Application US/09853386
; Patent No. US20020049151A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Evelyn
; APPLICANT: Bresnihan, Barry
; APPLICANT: Conneely, Orla
; APPLICANT: Fitzgerald, Oliver
; TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR
; TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors
; FILE REFERENCE: P01972US1
; CURRENT APPLICATION NUMBER: US/09/853,386
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/203645
; PRIOR FILING DATE: 2000-05-12
; NUMBER OF SEQ ID NOS: 153
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 68
; LENGTH: 628
; TYPE: prt
; ORGANISM: Rattus norvegicus
; rs-09-853-286-68

Query Match	92.1%	Score 3074;	DB 3;	Length 628;
Best Local Similarity	92.2%;	pred. No. 1.6e-199;		
Matches 582;	Conservative 12;	Mismatches 29;	Indels 8;	Gaps 4

QY	1	MPCVQAQYSPSPGSSYAAQTSYSEYTEINMPDYTKLTMDLGSITEITATATTSLSPTST	60
Db	1	MPCVQAQYSPSPGSTVATQYSGEYTEINMPDYAKLTMDLGSIMATATTSLSPTST	60
QY	61	FVSGYSNIEYKPSCVYQW----QRPLIKVEEGRAPSYHHHHHHHHHHHHHHHHHHHHQOQPS	116
Db	61	FMEGYSPCKLPSCLQMPSPGPRPLIKMEEGREHGYYHHHHHHHHHHHHHHHHHHHHQO--QPS	118
QY	117	IPPASSPEDEVLPSTSMYFKQSPSTPTTTPAFPQAGALWDEALPSAPGCIAPGELLDP	176
Db	119	IPPPSGEDEVLPSTSMYFKQSPSTPTTTFGFPQAGALWDELPSAPGCIAPGELLDPQ	178
QY	177	MKAIVPTV-AGARVPLFHKFSPHPAPSPAGGHHLYDPTAAALSLPLGAAAAGSQA	235

Db 179 MKAVPPMAAARFPPIF-FKPSPPHPAPSPAGGHHLYDPTAAALSLPLGAAAAAGSQA 237
QY 236 AALESHPYGLPLAKAAAPLAPPLGLTSPSTASSLLGESPSLPSPPSSSSSGEGTCAYC 295
Db 238 AALESHPYGLPLAKRTATUTFPPLGLTASPTASSLLGESPSLPSPPNRSSSGEGTCAYC 297
QY 296 GDNAAQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCVDRRRNRQYCRFQKCLSV 355
Db 298 GDNAAQHYGVRTCEGCKGFFKRTVQKNAKYVCLANKNCVDRRRNRQYCRFQKCLSV 357
QY 356 GMVKEVVRTDSLKGRGRRLPSKPSLQOEPSQPPSPPICMNNAALVRALTDSTPRDL 415
Db 358 GMVKEVVRTDSLKGRGRRLPSKPSLQOEPSQPPSPPICMNNAALVRALTDSTPRDL 417
QY 416 YSRYCPTDQAAAGTDAEHVQOQFYNNLTASIDVSRGWAELKIPGFTDLPKEDQTLLESAPL 475
Db 418 YSRYCPTDQATAGTDAEHVQOQFYNNLTASIDVSRGWAELKIPGFTDLPKEDQTLLESAPL 477
QY 476 ELFVLRLSIRSNATDKFVFCNGLVLRHQCLRGFGWLDISKDFSLNQLSLNLDIQALA 535
Db 478 ELFVLRLSIRSNATDKFVFCNGLVLRHQCLRGFGWLDISKDFSLNQLSLNLDIQALA 537
QY 536 CLSALSMITERHGLKEPKVEELCNKITSSLDKHQSKGOALBPTESKVLGALVELRKICT 595
Db 538 CLSALSMITERHGLKEPKVEELCNKITSSLDKHQSKGOALBPTESKVLGALVELRKICT 597
QY 596 LGLQRIFYKLKLEDLVSPPSIIDKFLDLPF 626
Db 598 QGLQRIFYKLKLEDLVSPPSVIDKFLDLPF 628

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Job time : 76 secs

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GenCore version 5.1.7
Copyright (c) 1993 - 2006 Bioceleration Ltd.

OM protein - protein search, using sw model

Run on: March 17, 2006, 13:05:20 ; Search time 13 Seconds
(without alignments)
1378.302 Million cell updates/sec

Title: US-10-608-863-2

Perfect score: 3337

Sequence: 1 MPCVQAQYSPSPGSSYAAQ.....EDLVSPPIIDKFLDITLTPF 626

Scoring table: BLOSUM62

Gapop 10.0 , Gapext 0.5

Searched: 169630 seqs, 2862289 residues

Total number of hits satisfying chosen parameters: 169630

Minimum DB seq length: 0

Maximum DB seq length: 2000000000

Post-processing: Minimum Match 0%

Listing first 45 summaries

Database : Published Applications AA New:

- 1: /cgn2_6/ptodata/1/pubpaa/us08_NEW_PUB.pep.*
- 2: /cgn2_6/ptodata/1/pubpaa/us06_NEW_PUB.pep.*
- 3: /cgn2_6/ptodata/1/pubpaa/us07_NEW_PUB.pep.*
- 4: /cgn2_6/ptodata/1/pubpaa/PCT_NEW_PUB.pep.*
- 5: /cgn2_6/ptodata/1/pubpaa/us09_NEW_PUB.pep.*
- 6: /cgn2_6/ptodata/1/pubpaa/us10_NEW_PUB.pep.*
- 7: /cgn2_6/ptodata/1/pubpaa/us11_NEW_PUB.pep.*
- 8: /cgn2_6/ptodata/1/pubpaa/us60_NEW_PUB.pep.*

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

SUMMARIES

Result No.	Score	Query Match	Length	ID	Description
1	1745	52.3	598	US-11-198-640A-2	Sequence 2, Appli
2	533.5	16.0	533	US-11-124-368A-335	Sequence 335, App
3	479	14.4	435	US-11-166-412-62	Sequence 62, Appl
4	479	14.4	435	US-11-166-412-63	Sequence 63, Appl
5	479	14.4	458	US-11-166-412-61	Sequence 61, Appl
6	479	14.4	458	US-11-169-041-230	Sequence 230, App
7	411.5	12.3	541	US-11-118-855-26	Sequence 26, Appl
8	403.5	12.1	447	US-11-076-163-1	Sequence 1, Appli
9	403.5	12.1	447	US-11-166-412-52	Sequence 52, Appl
10	388	11.6	474	US-10-330-773-460	Sequence 460, App
11	388	11.6	480	US-10-330-773-457	Sequence 457, App
12	385	11.5	403	US-10-501-035-252	Sequence 252, App
13	382	11.4	457	US-10-330-773-462	Sequence 462, App
14	374	11.2	530	US-11-026-800-2	Sequence 2, Appli
15	368	11.0	460	US-11-076-163-5	Sequence 5, Appli
16	368	11.0	460	US-11-166-412-68	Sequence 68, Appl
17	359.5	10.8	477	US-11-156-272-9	Sequence 9, Appli
18	359	10.8	746	US-10-828-831-7	Sequence 7, Appli
19	357	10.7	1041	US-10-828-831-9	Sequence 9, Appli
20	355	10.6	579	US-10-501-035-317	Sequence 317, App
21	351.5	10.5	505	US-10-519-447-4	Sequence 4, Appli
22	349	10.5	845	US-11-094-519A-42	Sequence 42, Appl
23	345	10.3	837	US-11-094-519A-43	Sequence 43, Appl
24	337	10.1	746	US-10-828-831-5	Sequence 5, Appli
25	334.5	10.0	427	US-11-156-272-12	Sequence 12, Appl

ALIGNMENTS

RESULT 1

US-11-198-640A-2 450 7 US-11-156-272-10 Sequence 10, Appl
26 334.5 10.0 385 7 US-11-096-072A-3 Sequence 3, Appli
27 334 10.0 541 7 US-11-166-412-55 Sequence 55, Appl
28 329 9.9 385 7 US-11-096-072A-4 Sequence 4, Appli
29 326 9.8 495 7 US-11-166-412-54 Sequence 54, Appl
30 324.5 9.7 500 7 US-11-166-412-53 Sequence 53, Appl
31 323.5 9.7 777 6 US-10-658-986-4 Sequence 4, Appli
32 318 9.5 742 6 US-10-658-986-2 Sequence 2, Appli
33 317 9.5 306 7 US-11-166-412-220 Sequence 220, App
34 231 6.9 66 7 US-11-118-855-5 Sequence 5, Appli
35 219 6.5 688 7 US-11-106-674-1 Sequence 1, Appli
36 217.5 6.1 624 7 US-11-053-100-48 Sequence 48, Appl
37 203.5 6.1 774 7 US-11-053-100-49 Sequence 49, Appl
38 203.5 6.1 263 7 US-11-166-412-226 Sequence 226, App
39 202 6.1 241 6 US-10-993-143-14 Sequence 14, Appl
40 198.5 5.9 412 7 US-11-093-808-9 Sequence 9, Appli
41 198.5 5.9 412 7 US-11-093-808-11 Sequence 11, Appl
42 198.5 5.9 412 7 US-11-093-808-14 Sequence 14, Appl
43 198.5 5.9 775 7 US-11-053-100-51 Sequence 51, Appl
44 198.5 5.9 1225 7 US-11-053-100-50 Sequence 50, Appl
45 198.5 5.9

US-11-198-640A-2
; Sequence 2, Application US/11198640A
; Publication No. US20060040298A1
; GENERAL INFORMATION:
; APPLICANT: Schmidt, Azriel
; APPLICANT: Duong, Le Thi
; APPLICANT: Pickaraki, Maureen
; TITLE OF INVENTION: RHESUS MONKEY NURRI NUCLEAR RECEPTOR
; FILE REFERENCE: 21228
; CURRENT APPLICATION NUMBER: US/11/198,640A
; CURRENT FILING DATE: 2005-08-05
; PRIOR FILING DATE: 2004-08-05
; NUMBER OF SEQ ID NOS: 17
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 2
; LENGTH: 598
; TYPE: PRT
; ORGANISM: Macaca mulatta
US-11-198-640A-2

Query Match 52.3%; Score 1745; DB 7; Length 598;
Best Local Similarity 54.4%; Pred. No. 5.3e-124;
Matches 362; Conservative 74; Mismatches 122; Indels 108; Gaps 18;
Qy 1 MPCVQAQYSPSPGSSYAAQTY-----SSEYTTETMNPDDYTKLTDLGSFTETATATTSPLP 56
Db 1 MPCVQAQYSGSPGQSPASQSYSHSGEYSSDFTPTPEFVKFMDLTNTEI--TATTSPLP 58
Qy 57 SISRFBVSGYSNYELKPCSVYQM-----ORPLIKVEGRAPSYHHHHHHHHHHHHHHHHHH 112
Db 59 SFSTFMDNYSTGYDVKPPCLYQMLPSGQSSIKVEDQMNYQOHSH----- 105
Qy 113 QQPSIPPASSPEDEVLP-STSMYFKQSPPTPTTTFAPFPQAGALWDEALPAPGCIAPGP 171
Db 106 ----LPQSQ---EEMPHSGSVYKPSPPPTPTTTPGQVQHS PWDD-----PGS 148
Qy 172 LLDPPMKAVPT-----VAGARFPLFHFKPSPHPPPA-----PSPAG 207
Db 149 LHNPHQNYVATTHMIEQRTKTPVSRSLSPFSKQSPPTGTVSSCOMRFDGLFHPVMPNPEPAS 208
Qy 208 GHILGYDPTAAALSLPLGAAAAGSQAALLESHPYGLP-LAKRAAPLAFPLGLTTPSPT 266
Db 209 SHHV-----VDGQTFVFNPIKPPASMGFFGLQI---GH 239
Qy 267 ASSLLGSPSLPSPSPSRSSSGEGTCVCGDNAAACQHVGRTCBGCKGFFRTTVQKNKY 326

Db 240 ASQLL--DTQVSPBSRGSPSNEGLCAVCGDNAACHYGVRTCEGCKGFFKRTVQKNAY 297
QY 327 VCLANKNCVDKRRNRNRCQYCFQKLSVGMVKEVVRTDSLKRRGRLPSPKSPLOQEP 386
Db 298 VCLANKNCVDKRRNRNRCQYCFQKLSVGMVKEVVRTDSLKRRGRLPSPKSPKSP 352
QY 387 SOPSPPSPICMNNALVRALTSTP--RDLDYSRY-CPTDQAAAGTDAHVQOQFYNILTA 443
Db 353 QEPSPPSPVLSALVRAHVDSNPAWTSLDYSRFOANPDYQMSGDDTQHIQOQFYDLTGT 412
QY 444 SIDVSRWAEKIPGFTDLPKEDQTLIESAFLELVLRISNTAEDKVFVFCNGLVLRH 503
Db 413 SNEIRGWAELIPGADLPKADODLLFESAFLELVLRILAYSNPVEGKLIFCNGVILHR 472
QY 504 LQCLRGFGWLSIKDPSNLQSLNDIOALACLALSMTIRHGLKPKRVEELCNKIT 563
Db 473 LQCVRGFGWIDSIVFSSNLQNMNIDISAFSCIAALAMVTERHGLKPKRVEELQNKIV 532
QY 564 SSLKDQHQ--SKQALEPTE-SKVLGALVELRKICTLGLQRIEYVLKLEDLVSPSIIDKLP 620
Db 533 NCLKDHVTNNGLNRPNYLSKLLGKLPELRTCTQGLQRIFYLKLEDLVPPPAIIDKLP 592
QY 621 LDTLPF 626
Db 593 LDTLPF 598

RESULT 2

US-11-124-368A-335
; Sequence 335, Application US/11124368A
; Publication No. US20050287559A1
; GENERAL INFORMATION:
; APPLICANT: Michele Cargill
; APPLICANT: James J. Devlin
; APPLICANT: May Luke
; TITLE OF INVENTION: Genetic Polymorphisms Associated with
; TITLE OF INVENTION: Vascular Diseases, Methods of Detection and Uses Thereof
; FILE REFERENCE: CL001524
; CURRENT APPLICATION NUMBER: US/11/124,368A
; CURRENT FILING DATE: 2005-05-09
; PRIOR APPLICATION NUMBER: US 60/568,845
; PRIOR FILING DATE: 2004-05-07
; PRIOR APPLICATION NUMBER: US 60/625,936
; PRIOR FILING DATE: 2004-11-09
; NUMBER OF SEQ ID NOS: 21112
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 335
; LENGTH: 533
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-124-368A-335

Query Match 16.0%; Score 533.5; DB 7; Length 533;
Best Local Similarity 29.7%; Pred. No. 1.1e-32;
Matches 151; Conservative 70; Mismatches 189; Indels 99; Gaps 17;
QY 118 PPASPEDEVLPSTMYFQSPSTPTTTPAFPPQAGALWDEALPSAGPCIAFGPILDDPM 177
Db 83 PDSSSPNP--LP-----QGVPPSPPGPPLPSTA-----PSLGGSGAPP--PPM 124
QY 178 KAVPTVAGARFPLFHKPSPPHPPAPSPAGHHLGVDPTAAALSLPLGAAAAGSQAAA 237
Db 125 P--PPPLGSPFPVSSSMGSPGLFPAPPFGPGVSSPQINSTVSLFPGGSG----- 174
QY 238 LESHYPGLPLAKRAAPLAPPPLGLTSPSTASSLGSPLSPSPSSSGSGTCAVCGD 297
Db 175 -----PPEDVKP-----PVLVGRGLHCPPPPGPGAGKELCAICGD 210
QY 298 NAACHYGVRTCEGCKGFFKRTVQKNAYKVCVLANKNCPVDKRRNRNRCQYCFQKLSVGM 357
Db 211 RSSGKHGYVCEGCKGFFKRTIRKDLTYSRDNKDCVTDKQRNRCQYCRYQKCLATGM 270
QY 358 VKEVVRTDSLKRRGRRLSPKSPLOQEPSPSPSPICMNNALVRAL----- 406

Db 271 KREAVQERQRG-----KKDQG-DGEGAGAEEMPVDRILELAELAVEQSKDQGVGP 322
QY 407 -----TSTPRDLDSRYCPTDQAAAGTDAHVQOQFYNLLTASIDVSRWAEKIPGFTDL 461
Db 323 GGTGGSGSPND-----PVTNICQAAD---KQLFTLV-----EWAKRIPIHFSSL 363
QY 462 PKEDOTLLIESAFLELVLRISNTAEDKVFVFCNGLVLRHLCQ-LRGFGWLSIKD-KD 519
Db 364 PLDDQVILLRAGWNEILLTASFHSRSDIVRDGILLATGLHVRNSAHSAVGAIQFVRLTE 423
QY 520 FSLNLQSLNDIOALACLALSMTIRHGLKPKRVEELCNKITSSLKDH--QSKGQALE 577
Db 424 LVSKMRDMRMOKTELGCRLAILFNPDAKGLSNFSEVEVLRKVTASLETYCKQKYPEQ 483
QY 578 PTESKVLGALVELRKICTLGLQRIFYLK 606
Db 484 GRFAKLLRLPALRSIGUKLEHLFFPKL 512

RESULT 3

US-11-166-412-62
; Sequence 62, Application US/11166412
; Publication No. US20060014231A1
; GENERAL INFORMATION:
; APPLICANT: Van Rompaey, Luc
; APPLICANT: Tomme, Peter H. M.
; TITLE OF INVENTION: Methods and Compositions To Promote Bone Homeostasis
; FILE REFERENCE: P27,927-D USA
; CURRENT APPLICATION NUMBER: US/11/166,412
; CURRENT FILING DATE: 2005-05-24
; PRIOR APPLICATION NUMBER: 60/582,704
; PRIOR FILING DATE: 2004-06-24
; PRIOR APPLICATION NUMBER: 60/630,449
; PRIOR FILING DATE: 2004-11-23
; PRIOR APPLICATION NUMBER: 60/673,206
; PRIOR FILING DATE: 2005-04-20
; NUMBER OF SEQ ID NOS: 231
; SOFTWARE: PatentIn version 3.3
; SEQ ID NO 62
; LENGTH: 435
; TYPE: PRT
; ORGANISM: Homo sapiens
US-11-166-412-62

Query Match 14.4%; Score 479; DB 7; Length 435;
Best Local Similarity 29.7%; Pred. No. 1.1e-28;
Matches 136; Conservative 76; Mismatches 176; Indels 70; Gaps 13;
QY 194 KPSPHPPAPSPAGHHLGVDPTAAALSLPLGAAAAGSQAALESHPYGLPLAKRAAP 253
Db 17 KTEPSPASLTDSVNH-----SPGSSDASGSYSSTMNHGQGLD----- 57
QY 254 LAFPPPLGLTPSPASSILGESP-----SLPSPSSSSSGEGT 291
Db 58 --SPPL-----YPSAPILGSGPVRKLYDDCSSTIVEDPQTKCEYMLNSMPK-----L 104
QY 292 CAVCGDNAACHYGVRTCEGCKGFFKRTVQKNAYKVCVLANKNCPVDKRRNRNRCQYCFQK 351
Db 105 CLVCGDIASGHHYGVASCEACKAFPKRTIQGNIYSCPATNECEITKRRRKSQACRFMK 164
QY 352 CLSVGMVKEVVRTDSLKRRGRRLSPKSPLOQEP-SOPSPPSPICMNNALVRALTST 410
Db 165 CLKVGMLEGVRLDRVRG--GRQYKRRIDAENSPLYNPQLVQPAKPKYKNIKSHLLVAE 222
QY 411 PRDLDSYCYPTDQAAAGTDAHVQOQFYNLLTASIDVSRWAEKIPGFTDLPKEQTLII 470
Db 223 PEKI-----YAMPDPVTPSDIKALTTLCDLADRELVIIGWAKHIPGFTSLAQMSLL 278
QY 471 ESAFLELVLRISNTAEDKVFVFCNGLVLRHLCQ-LRGFGWLSIKDPSNLQSLNL 529
Db 279 QSANMEILLGVVYRSLSFEDLVYADDYIMDEQSKLAGLLDNLNALLQLVKYKSMKL 338

Db 241 CGCAGCTGGACGCCCTCCCGGGCTCACTTTGCAACGCTGACGGTGGCGGACGTGGCGG 300
Qy 301 TGGAGGTGGGAACAGCGCGGGAATCCTCCCTCGCTGGTCAAGCCCAAGCGAGACGCCCG 360
Db 301 TGGAGGTGGGAACAGCGCGGGAATCCTCCCTCGCTGGTCAAGCCCAAGCGAGACGCCCG 360
Qy 361 CGGAACCTCTCGGCTGTCTCTCCATGAGTCGGATCGCAGCATCCCCCAACCGACCGCT 420
Db 361 CGGAACCTCTCGGCTGTCTCTCCATGAGTCGGATCGCAGCATCCCCCAACCGACCGCT 420
Qy 421 CACCGCCTCGGGAGCGCTGGGCTTGTACACCGCAGCGCTTCGCGGACAGCAGCTGTGA 480
Db 421 CACCGCCTCGGGAGCGCTGGGCTTGTACACCGCAGCGCTTCGCGGACAGCAGCTGTGA 480
Qy 481 CTCCTCCCACTGTCAGATTTTGGGACAGCTCTCTAGAAATCTGCTCTAAAGACGGAAACCG 540
Db 481 CTCCTCCCACTGTCAGATTTTGGGACAGCTCTCTAGAAATCTGCTCTAAAGACGGAAACCG 540
Qy 541 CCACAGCACTCAAGCCCACTCGCGAAGGAGCGAGCCCGGCAAGCCCGGGCCCTGAGCCT 600
Db 541 CCACAGCACTCAAGCCCACTCGCGAAGGAGCGAGCCCGGCAAGCCCGGGCCCTGAGCCT 600
Qy 601 GGACCTTAGCGGTGCGCGGAGCACTGCGCGGCTTCGCTCGCGGACGCTCCGCTCCT 660
Db 601 GGACCTTAGCGGTGCGCGGAGCACTGCGCGGCTTCGCTCGCGGAGCGCTCCGCTCCT 660
Qy 661 CCTACCTCTCAGCTTCGCTGGAGAGACCCCGAGCCCAACATTCAGCGGCGAAAGATAC 720
Db 661 CCTACCTCTCAGCTTCGCTGGAGAGACCCCGAGCCCAACATTCAGCGGCGAAAGATAC 720
Qy 721 CTTCCAGATATGCCCTGGTCCAGGCCAATATAGCCCTTCCCTCCAGGTTCCAGTTAT 780
Db 721 CTTCCAGATATGCCCTGGTCCAGGCCAATATAGCCCTTCCCTCCAGGTTCCAGTTAT 780
Qy 781 GCGGCGCAGACATACAGCTCGGAATACACCGAGATCATGAACCCCGACTACACCAAG 840
Db 781 GCGGCGCAGACATACAGCTCGGAATACACCGAGAGATCATGAACCCCGACTACACCAAG 840
Qy 841 CTGACATGGAACCTTTGGAGCACTGAGATCAGGCTACAGCCACACACGCTCCCTGCCACG 900
Db 841 CTGACATGGAACCTTTGGAGCACTGAGATCAGGCTACAGCCACACACGCTCCCTGCCACG 900
Qy 901 ATCAGTACTCTTGGAGGGCTACTCGAGCACTACGAACTCAGGCTTCCTGCGGTAC 960
Db 901 ATCAGTACTCTTGGAGGGCTACTCGAGCACTACGAACTCAGGCTTCCTGCGGTAC 960
Qy 961 CAAATGCGCGGCTTTGATCAAAGTGGAGGAGGGCGGCGCCAGCTTACCATCACCAT 1020
Db 961 CAAATGCGCGGCTTTGATCAAAGTGGAGGAGGGCGGCGCCAGCTTACCATCACCAT 1020
Qy 1021 CACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAAT 1080
Db 1021 CACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAAT 1080
Qy 1081 CTTCCAGCTCCAGCCCGGAGACGAGTGTCTCCCGGCGGCGGCGGCGGCGGCGGCGGCGG 1140
Db 1081 CTTCCAGCTCCAGCCCGGAGACGAGTGTCTCCCGGCGGCGGCGGCGGCGGCGGCGGCGG 1140
Qy 1141 TCCCAACCGTCCAGCCCGGCGGCTTCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 1200
Db 1141 TCCCAACCGTCCAGCCCGGCGGCTTCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 1200
Qy 1201 GAGGCACTGCTCCGCGGCGGCTGATCGCAACCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 1260
Db 1201 GAGGCACTGCTCCGCGGCGGCTGATCGCAACCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 1260
Qy 1261 AAGGCGGTCCCAACCGTGGCGGCGGCTTCCCGCTTCCCACTTCAAGCCCTCGCGG 1320
Db 1261 AAGGCGGTCCCAACCGTGGCGGCGGCTTCCCGCTTCCCACTTCAAGCCCTCGCGG 1320
Qy 1321 CCGGCACTCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 1380
Db 1321 CCGGCACTCCCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCG 1380

Qy 1381 GCTCCCGGCTCAGCCTGCCCTGGAGCGCGCAGCGCGCGGCGGCGGCGGCGGCGGCGGCGG 1440
Db 1381 GCTCCCGGCTCAGCCTGCCCTGGAGCGCGCAGCGCGCGGCGGCGGCGGCGGCGGCGGCGG 1440
Qy 1441 CTTGAGAGCCACCCGTACGGGCTCGCTGCGCAAGAGGGCGGCGGCGGCTTCGCTTCGCG 1500
Db 1441 CTTGAGAGCCACCCGTACGGGCTCGCTGCGCAAGAGGGCGGCGGCGGCTTCGCTTCGCG 1500
Qy 1501 CTTCTCGGCTCAGCGCTCCCTTACCGCGTCCAGCTGCTGGGCGAGAGTCCAGCCTG 1560
Db 1501 CTTCTCGGCTCAGCGCTCCCTTACCGCGTCCAGCTGCTGGGCGAGAGTCCAGCCTG 1560
Qy 1561 CCGTCCGCGCCAGCAGAGCTCGTCTGCGAGGCGACGCTGTCGCGTGGCGGGAC 1620
Db 1561 CCGTCCGCGCCAGCAGAGCTCGTCTGCGAGGCGACGCTGTCGCGTGGCGGGAC 1620
Qy 1621 AACCGCGCTGCCAGCACTACGGCGTGGAACTCTGCGAGGGCTGCAAGGGCTTTTCAAG 1680
Db 1621 AACCGCGCTGCCAGCACTACGGCGTGGAACTCTGCGAGGGCTGCAAGGGCTTTTCAAG 1680
Qy 1681 AGAACAGTGCAGAAAAATGCAAAATATGTTTGCCTGCGCAAAATAAAAACTGCCAGTAGAC 1740
Db 1681 AGAACAGTGCAGAAAAATGCAAAATATGTTTGCCTGCGCAAAATAAAAACTGCCAGTAGAC 1740
Qy 1741 AAGAGAGTGCAGAACCGATGTCAGTCTGTCGATTCAGAACTGTCAGTGTGGAATG 1800
Db 1741 AAGAGAGTGCAGAACCGATGTCAGTCTGTCGATTCAGAACTGTCAGTGTGGAATG 1800
Qy 1801 GTAAAAAGAGTTGTCCGTACAGATAGTCTGAAAGGGAGGAGGTGCTGCTCTCCAAA 1860
Db 1801 GTAAAAAGAGTTGTCCGTACAGATAGTCTGAAAGGGAGGAGGTGCTGCTCTCCAAA 1860
Qy 1861 CCAAGAGCCCATTTACAAACAGAACTTCTCAGCCCTCTCCACCTCTCTCTCTCTCTCTCT 1920
Db 1861 CCAAGAGCCCATTTACAAACAGAACTTCTCAGCCCTCTCCACCTCTCTCTCTCTCTCTCT 1920
Qy 1921 ATGATGATGCGCTTGTCCGAGCTTTAAACAGACTCAACACCCAGAGATCTTGATTTTCC 1980
Db 1921 ATGATGATGCGCTTGTCCGAGCTTTAAACAGACTCAACACCCAGAGATCTTGATTTTCC 1980
Qy 1981 AGATACTGTCCACTGACCCAGGCTGCTGCGAGCAGATGCTGAGCATGTGCAACAAATC 2040
Db 1981 AGATACTGTCCACTGACCCAGGCTGCTGCGAGCAGATGCTGAGCATGTGCAACAAATC 2040
Qy 2041 TACAACTCTGACAGCCTCCATTTGATGATATCCAGAGCTGGGCGAGAAAGATTCGGGA 2100
Db 2041 TACAACTCTGACAGCCTCCATTTGATGATATCCAGAGCTGGGCGAGAAAGATTCGGGA 2100
Qy 2101 TTTTACTGATCTCCCAAGAGATCAGACATTTATTTGATCAGCCCTTTTGGAGCTG 2160
Db 2101 TTTTACTGATCTCCCAAGAGATCAGACATTTATTTGATCAGCCCTTTTGGAGCTG 2160
Qy 2161 TTTTGTCTCAGACTTTCCATCAGGTCAAACTGCTGAAGATAAGTTTGTCTTGCAT 2220
Db 2161 TTTTGTCTCAGACTTTCCATCAGGTCAAACTGCTGAAGATAAGTTTGTCTTGCAT 2220
Qy 2221 GGAATTGTCTGCAATGCACTTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2280
Db 2221 GGAATTGTCTGCAATGCACTTTCACTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCTGCT 2280
Qy 2281 AAAGACTTTTCTTAAATTTTCAGAGCTGAACTTGTATATCCAGCCTTAGCCCTGCTG 2340
Db 2281 AAAGACTTTTCTTAAATTTTCAGAGCTGAACTTGTATATCCAGCCTTAGCCCTGCTG 2340
Qy 2341 TCAGCACTGACATGATCAGAGAAAGATGCGGTTTAAAGAAACCAAGAGAGTCCGAAG 2400
Db 2341 TCAGCACTGACATGATCAGAGAAAGATGCGGTTTAAAGAAACCAAGAGAGTCCGAAG 2400
Qy 2401 CTATGCAACAGAGTCAAGCAGTTTAAAGACCAACAGAGTAAAGGAGCAGGCTCTGGAG 2460
Db 2401 CTATGCAACAGAGTCAAGCAGTTTAAAGACCAACAGAGTAAAGGAGCAGGCTCTGGAG 2460

Qy	2461	CCCACCGAGTCTCAAGGTCCTCGGTGCCCCTGGTAGAACTGAGGAAGATCTGCAACCTGGGC	2520
Db	2461	CCCACCGAGTCCAAAGGTCTCGGTGCCCCTGGTAGAACTGAGGAAGATCTGCAACCTGGGC	2520
Qy	2521	CTCCAGCGCATCTTCTACCTCGAAGCTGGAGACATTGGTGCTCCACCTTCCATCANTGAC	2580
Db	2521	CTCCAGCGCATCTTCTACCTGAGCTGGAAGACTTGGTGCTCCACCTTCCATCATGAC	2580
Qy	2581	AAGCTTCTCTGGGACACCTTCTTAATCAGGACAGTGGAGCAGTGAGCTGCTCTCC	2640
Db	2581	AAGCTCTCTCTGGGACACCTTCTTAATCAGGACAGTGGAGCAGTGAGCTGCTCTCC	2640
Qy	2641	TCTCTTAGCACCTGTTGCTACGACGAAAGGGATAGGTTTGGAAACTATCATTTCTCTG	2700
Db	2641	TCTCTTAGCACCTGTTGCTACGAGCAAAAGGGATAGGTTTGGAAACTATCATTTCTCTG	2700
Qy	2701	TCCCTTCTTAAGAGAAAAGCAGCTCTGTAGAAAGCAAAAGACTTCTCTTTTTTTCTGGC	2760
Db	2701	TCCCTTCTTAAGAGAAAAGCAGCTCTGTAGAAAGCAAAAGACTTCTCTTTTTTTCTGGC	2760
Qy	2761	TCCTTTCTTTAAACCTAAAGCCAGAAAACTTGACAGAGTATTTGTTGGGGTTGTGTTTT	2820
Db	2761	TCCTTTCTTTAAACCTAAAGCCAGAAAACTTGACAGAGTATTTGTTGGGGTTGTGTTTT	2820
Qy	2821	ATATTTAGGCATTTGGGGATGGGTGGAGGGGTTATAGTTCA TGAGGGTTTCTTAAGA	2880
Db	2821	ATATTTAGGCATTTGGGGATGGGTGGAGGGGTTATAGTTCA TGAGGGTTTCTTAAGA	2880
Qy	2881	AATTGCTAAACAAAGCACTTTTGGACATGCTATCCAGCAGGAAAAAAGGATATATTA	2940
Db	2881	AATTGCTAAACAAAGCACTTTTGGACATGCTATCCAGCAGGAAAAAAGGATATATTA	2940
Qy	2941	ACTGTTTTAAAACTCTTTCTGGGGAATCCAAATATAGTTGCTTTGTATTTAAAAACAAGA	3000
Db	2941	ACTGTTTTAAAACTCTTTCTGGGGAATCCAAATATAGTTGCTTTGTATTTAAAAACAAGA	3000
Qy	3001	ACAGCCAAAGGGTTGTCGCCAGGGTAGGATGTGCTTTAAAGATTTGGTCCCTTGAAATAT	3060
Db	3001	ACAGCCAAAGGGTTGTCGCCAGGGTAGGATGTGCTTTAAAGATTTGGTCCCTTGAAATAT	3060
Qy	3061	GCCTTCGTATCAAGGTAGCTATGTGGTGCAACCAAGGCAGAAAACTTCTTTTAATTTC	3120
Db	3061	GCCTTCGTATCAAGGTAGCTATGTGGTGCAACCAAGGCAGAAAACTTCTTTTAATTTC	3120
Qy	3121	CTTCTTCTTTATTTTAAACAAATGGTGAAAGATGGAGGATTTACTCAAAATCAGACATGG	3180
Db	3121	CTTCTTCTTTATTTTAAACAAATGGTGAAAGATGGAGGATTTACTCAAAATCAGACATGG	3180
Qy	3181	CAAAAACAAATATGGCTGTTTTCATATAACAAAGTGCAATTTTTTAAAGTGTGCTTTA	3240
Db	3181	CAAAAACAAATATGGCTGTTTTCATATAACAAAGTGCAATTTTTTAAAGTGTGCTTTA	3240
Qy	3241	CTAAGTCTCTTTATTTAACTCTCTTTATTTCTATATGGAATAAAGAGGAGGAGTCATG	3300
Db	3241	CTAAGTCTCTTTATTTAACTCTCTTTATTTCTATATGGAATAAAGAGGAGGAGTCATG	3300
Qy	3301	TTAGCAAAATGACAGTTAATATCCCTAGCAGAGGCTGTGTTCACTTCCCTGTCCATCCC	3360
Db	3301	TTAGCAAAATGACAGTTAATATCCCTAGCAGAGGCTGTGTTCACTTCCCTGTCCATCCC	3360
Qy	3361	TTCTGAGGTATGCCCATCCAGACTTTTAGGCCATTCTTGATGGAACAGATCCCTGCC	3420
Db	3361	TTCTGAGGTATGCCCATCCAGACTTTTAGGCCATTCTTGATGGAACAGATCCCTGCC	3420
Qy	3421	CTGACTGTCCAGCTATCTGAAAAGTGATCAGATTTATAA CTGGGATTA CATGTAATGTT	3480
Db	3421	CTGACTGTCCAGCTATCTGAAAAGTGATCAGATTTATAA CTGGAATTA CATGTAATGTT	3480
Qy	3481	TTGGTTGTGTTCTATCAACCCACAGAGTCCCTTAAA CTTCCTCAGTTATAGTAACTG	3540
Db	3481	TTGGTTGTGTTCTATCAACCCACAGAGTCCCTTAAA CTTCCTCAGTTATAGTAACTG	3540
Qy	3541	ACTGGTATATTTCAATCAGAAGCGCCATAAGTCAGTTGAGTATTTTGATCCCTAGATAAGAA	3600

RESULT 2

US-09-949-016-905

US-09-343-018-303
; Sequence 905, Application US/09949016

: Sequence 905, Appl. No. 6812339

Patent No. 6812339
GENERAL INFORMATION.

APPLICANT: VENTER, J. Craig et al

APPLICANT: VENTER, J. Craig et al.

TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED

;	TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED	WITH HUMAN DISEASE METHODS OF DETECTION AND THERAPY
:	TITLE OF INVENTION:	

;
; TITLE OF INVENTION: WITH
; FILE REFERENCE: CI001307

FILE REFERENCE: CL001307
CURRENT APPLICATION NUMBER: US/00/0448 012

; CURRENT APPLICATION NUMBER: US/09/94
 ; CURRENT FILING DATE: 2000-04-14

; CURRENT FILING DATE: 2000-04-14

; PRIOR APPLICATION NUMBER: 60/241,755

; PRIOR FILING DATE: 2000-10-20

; PRIOR APPLICATION NUMBER: 60/237,768

; PRIOR FILING DATE: 2000-10-03

;
PRIOR APPLICA

**;
PRIOR FILING**

; NUMBER OF SEQ

; SOFTWARE: FastSeq

; SEQ ID NO 905

Query Match 98.1%: Score 3722: DB 3: Length 3802:

Query Match	98.1%;	Score 3722;
Best Local Similarity	99.4%;	Pred No 0.

BEST LOCAL SIMILARITY 99.4%; pred. No. 0;
Matches 3779: Conservative 0: Mismatches 15: Indels 8: Gaps 4:

OV 1 ATAAATGACGTGCCGAGAGAGCGAGCGAACCGCGACCGCGGAGAGCGCGAGTCTCTGGCT 60

QY I A T A A A T G A C G T G C C G A G A G A G C G A G C G A A C G C G C A G C C G G A G A G C G G A G T C T C C T G C C T 60

61 CCGGCCCCCA CCGCTCAGCTCCTGCTCCTCCTCCGTCCTCCCTATACACAGACCGGCTCA 120

61 CCGGCTCCAGCCCTCCAGCTCCCTGCTCCCTCCCTCCGCTCCCCCATACACAGACGGCTCA 120

[illegible]

QY 121 CACCGGCTCCCTCACTCGCACACACAGACACAAGCGGCACACAGGCTCCG--CACACAC 178

[illegible]

QY 179 ACTTCGGCTCTCCCGCGGCTCACACCCCTCTTGTCCCTTGAGCCCTTGCCGGTGACGCGG 238

[illegible]

239 CGCCGACGCTGGACGCGCCCTCCCGGGCTCACTTTGCAACGCTGACGGTCCGGCAGTGGC 298

[illegible]

QY 299 CGTGGAGGTGGGAACAGCGCGGCATCTCCCCCTGGTCACAGCCCAAGCCAGGACGCC 358

QY 359 CGCGAACTCTCGGCTGTGCTCTCCCATGAGTCGGATCGCAGCATCCCCACAGCG 418
DB 361 CCGGAACCTCTCGGCTGTGCTCTCCATGAGTCGGATCGAGCATCCCCACAGCG 420
QY 419 CTCACCGCTCTCGGAGCGGCTGGCTTTGTACACCGCAGCCCTTCGGGACAGCAGCTGT 478
DB 421 CTCACCGCTCTCGGAGCGGCTGGCTTTGTACACCGCAGCCCTTCGGGACAGCAGCTGT 480
QY 479 GACTCCCCCAGTCGAGATTTGCGGACAGCTCTCTAGAACTCGCTCTAAAGACGGAAC 538
DB 481 GACTCCCCCAGTCGAGATTTGCGGACAGCTCTCTAGAACTCGCTCTAAAGACGGAAC 540
QY 539 CGCCACAGCACTCAAGCCCACTCGCGAAGAGGGCAGCCCGCAGACCCCGGCCCTGAGC 598
DB 541 CCGCAAGCACTCAAGCCCACTCGCGAAGAGGGCAGCCCGCAGACCCCGGCCCTGAGC 600
QY 599 CTGGACCCCTTAGCGGTGCGGCGACCACTGCGCGGCTTCGCTCGCGGAGCGTCGCTC 658
DB 601 CTGGACCCCTTAGCGGTGCGGCGACCACTGCGCGGCTTCGCTCGCGGAGCGTCGCTC 660
QY 659 CTCCTACACTCTCAGCTCTCGCTGAGAGAGACCCCGAGCCCGCAACATTCAGCGCGCAAGAT 718
DB 661 CTCCTACACTCTCAGCTCTCGCTGAGAGAGACCCCGAGCCCGCAACATTCAGCGCGCAAGAT 720
QY 719 ACCCTCCAGATGATCCCTGCGTCCAGCCCAATATAGCCCTTCGCCCTCCAGGTTCCAGTT 778
DB 721 ACCCTCCAGATGATCCCTGCGTCCAGCCCAATATAGCCCTTCGCCCTCCAGGTTCCAGTT 780
QY 779 ATGCGGCGCAGACATACAGCTCGGAATACCAACCGAGATCATGAACCCCGACTACACCA 838
DB 781 ATGCGGCGCAGACATACAGCTCGGAATACCAACCGAGATCATGAACCCCGACTACACCA 840
QY 839 AGCTGACATGACCTTGCGACGACTGAGATCA CGGCTACAGCCACAGCTCCCTGCGCA 898
DB 841 AGCTGACATGACCTTGCGACGACTGAGATCA CGGCTACAGCCACAGCTCCCTGCGCA 900
QY 899 GCATCAGTACCTTCGTGGAGGGCTACTCGAGCAACTACGAACTCAAGCTTCCTCGGTGT 958
DB 901 GCATCAGTACCTTCGTGGAGGGCTACTCGAGCAACTACGAACTCAAGCTTCCTCGGTGT 960
QY 959 ACCAAATGAGCGGCCCTTGATCAAAAGTGGAGGAGGGCGGGCGCCAGCTACCATCACC 1018
DB 961 ACCAAATGAGCGGCCCTTGATCAAAAGTGGAGGAGGGCGGGCGCCAGCTACCATCACC 1020
QY 1019 ATCAGCAC 1078
DB 1021 ATCAGCAC 1080
QY 1079 TTCTCTCAGCCTCCAGCCCGAGGAGCAGGTGCTGCTCCAGCACCTCCATGTACTTTCAAGC 1138
DB 1081 TTCTCTCAGCCTCCAGCCCGAGGAGCAGGTGCTGCTCCAGCACCTCCATGTACTTTCAAGC 1140
QY 1139 AGTCCCCACCGTCCACCCCGCACCGCCGCTTCGCCCGGAGGCGGGCGGTTATGGG 1198
DB 1141 AGTCCCCACCGTCCACCCCGCACCGCCGCTTCGCCCGGAGGCGGGCGGTTATGGG 1200
QY 1199 ACGAGGCACTGCTCGGCGCTCGGCTGATCGCAACCGCGGCTGCTGTGAGCCCGCGGA 1258
DB 1201 ACGAGGCACTGCTCGGCGCTCGGCTGATCGCAACCGCGGCTGCTGTGAGCCCGCGGA 1260
QY 1259 TGAAGCGGTCCCGAGGTGGCGGCGGCTTCGCTCTTCCACTTCAAGCCCTCGC 1318
DB 1261 TGAAGCGGTCCCGAGGTGGCGGCGGCTTCGCTCTTCCACTTCAAGCCCTCGC 1320
QY 1319 CGCGGATCCCCCGGCGCCAGCCCGCGCGGCGGCGCACCACTCGGCTACGACCCGAGCG 1378
DB 1321 CGCGGATCCCCCGGCGCCAGCCCGCGCGGCGGCGCACCACTCGGCTACGACCCGAGCG 1380
QY 1379 CGCTGCGCGCTCAGCTTCGCTGGAGAGCGCAGCGCGCGGCGGCGAGCGCGCGCG 1438
DB 1381 CGCTGCGCGCTCAGCTTCGCTGGAGAGCGCAGCGCGCGGCGGCGAGCGCGCGCGCG 1440
QY 1439 CGCTTGAGAGCCACCGCTACGGGCTGCGCTGCGCCAAAGAGGCGGCGCGCTGCGCTTCC 1498

DB 1441 CGCTTGAGGGCCACCGGTACGGGCTGCGCTGGCCAGAGGGCGGCCCGCTGCGCTTCC 1500
QY 1499 CGCTCTCGGCTCA CGCCCTCCCTTACCGGCTCAGGCTTCTGCGGAGAGTGTCCAGCC 1558
DB 1501 CGCTCTCGGCTCA CGCCCTCCCTTACCGGCTCAGGCTTCTGCGGAGAGTGTCCAGCC 1560
QY 1559 TGCGTTCGCGCCCGCAGAGGAGCTCGCTGCTGCGGAGGGCAGCTGCGCTGTCGCGGG 1618
DB 1561 TGCGTTCGCGCCCGCAGAGGAGCTCGCTGCTGCGGAGGGCAGCTGCTGTCGCGGG 1620
QY 1619 ACAAACCGCTGCTGCGCAGCACTACCGGCTGCGAACTGCGAGGGCTGCAAGGGCTTTTCA 1678
DB 1621 ACAACCGCTGCTGCGCAGCACTACCGGCTGCGAACTGCGAGGGCTGCAAGGGCTTTTCA 1680
QY 1679 AGAAACAGTGCAGAAATAATGCAAAATATGTTGCTGCGCAAAATAAACTGCCAGTAG 1738
DB 1681 AGAAACAGTGCAGAAATAATGCAAAATATGTTGCTGCGCAAAATAAACTGCCAGTAG 1740
QY 1739 ACAAGAGCGTCGAAACCGGATGTCAGTACTGTCGATTTCAAGTGTCTCAGTGTGGAA 1798
DB 1741 ACAAGAGCGTCGAAACCGGATGTCAGTACTGTCGATTTCAAGTGTCTCAGTGTGGAA 1800
QY 1799 TGCTAAAGAAAGTTGTCCGTACAGATAGTCTGAAAGGGAGGAGGTCGTCTGCCCTTCCA 1858
DB 1801 TGCTAAAGAAAGTTGTCCGTACAGATAGTCTGAAAGGGAGGAGGTCGTCTGCCCTTCCA 1860
QY 1859 AACCAAGAGCCCATTAACAAGAAACCTTCTCAGCCCTTCCACCTTCTCCTCAATCT 1918
DB 1861 AACCAAGAGCCCATTAACAAGAAACCTTCTCAGCCCTTCCACCTTCTCCTCAATCT 1920
QY 1919 GCATGTGAATGCCCTTGTCCGAGCTTTAAACAGATCAACACCCAGAGATCTTGATTAAT 1978
DB 1921 GCATGTGAATGCCCTTGTCCGAGCTTTAAACAGATCAACACCCAGAGATCTTGATTAAT 1980
QY 1979 CCAGATCTGCTCCACTGACCGAGCTGCTGAGGCA CAGATGCTGAGCATGTGCAACAAT 2038
DB 1981 CCAGATCTGCTCCACTGACCGAGCTGCTGAGGCA CAGATGCTGAGCATGTGCAACAAT 2040
QY 2039 TCTACAACTCTGACAGCTTCAATGATGATCCAGAACTGAGGCTGGGCAAGAAATTCGG 2098
DB 2041 TCTACAACTCTGACAGCTTCAATGATGATCCAGAACTGAGGCTGGGCAAGAAATTCGG 2100
QY 2099 GATTTACTGATCTCCCAAGAGATCAGATTAATTAATTAATTAATTAATTAATTAATTAAT 2158
DB 2101 GATTTACTGATCTCCCAAGAGATCAGATTAATTAATTAATTAATTAATTAATTAATTAAT 2160
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DB 2161 TGTTTGTCTCAGACTTTCATCAGGTCAAACACTGCTGAAAGATAAGTTTGTGTCTGCA 2220
QY 2219 ATGACTTGTCTGATCGACTTCAGTCCCTTCGTGGAATTTGGGAGTGGCTCGACTCTA 2278
DB 2221 ATGACTTGTCTGATCGACTTCAGTCCCTTCGTGGAATTTGGGAGTGGCTCGACTCTA 2280
QY 2279 TTAAGACTTTTCTTAAATTTGAGAGCTGTAACCTTTGATATCAAGCTTAGCTGCG 2338
DB 2281 TTAAGACTTTTCTTAAATTTGAGAGCTGTAACCTTTGATATCAAGCTTAGCTGCG 2340
QY 2339 TGTTCAGACTGAGCATGATCAGAAAGACATGGGTTAAAAGAACCAAGAGAGTTCGAAG 2398
DB 2341 TGTTCAGACTGAGCATGATCAGAAAGACATGGGTTAAAAGAACCAAGAGAGTTCGAAG 2400
QY 2399 AGCTATGCAACAGATCAAGAGCTTTAAAGACCAACAGATGAAGGACAGGCTCTGG 2458
DB 2401 AGCTATGCAACAGATCAAGAGCTTTAAAGACCAACAGATGAAGGACAGGCTCTGG 2460
QY 2459 AGCCACAGCTTCAAGCTTCCGCTGCGCTTGAAGTCTGAGGAGATCTCAACCTCG 2518
DB 2461 AACCACAGCTTCAAGCTTCCGCTGCGCTTGAAGTCTGAGGAGATCTCAACCTCG 2520
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Db 2521 GCTCCAGCGCATCTTCTACCTGAAGCTGGAGACTGTGGTGTCTCCACCCTTCCATCATG 2580
Qy 2579 ACAAGCTCTTCTGGACACCCCTACCTTCTTAATCAGGACACTGGAGCAGTGCCT 2638
Db 2581 ACNAGCTCTTCTGGACACCCCTACCTTCTTAATCAGGACACTGGAGCAGTGCCT 2640
Qy 2639 CCTCTCTAGCACCTGCTTGTACGACGAAAGGGATAGGTGTGGAAACCTATCATTTCC 2698
Db 2641 CCTCTCTAGCACCTGCTTGTACGACGAAAGGGATAGGTGTGGAAACCTATCATTTCC 2700
Qy 2699 TGTCTCTCTTAAGAGGAAAGCAGCTCTGTAGAGAAAGCAAGACTTTCTTTTCTG 2758
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Qy 2759 GCTCTTTTCTTACCACTTAAAGCAGAGAAATCTGCAGAGTATCTGTGGGTGTGTT 2818
Db 2761 GCTCTTTTCTTAAACCTTAAAGCAGAGAAATCTGCAGAGTATCTGTGGGTGTGTT 2820
Qy 2819 TTATATTTAGGCATTTGGGGATGGGTGGAGGGGTATAGTTTATGAGGGTCTTCTAA 2878
Db 2821 TTATATTTAGGCATTTGGGGATGGGTGGAGGGGTATAGTTTATGAGGGTCTTCTAA 2880
Qy 2879 GAAATGCTTAAAGACACTTTTGGACAAATGCTATCCAGCAGGAGGAAAGGATAATA 2938
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Qy 2939 TAACTGTTTTTAAACCTTCTTGGGGAATCCAATTTATAGTTGCTTTGATTTAAAGCAA 2998
Db 2941 TAACTGTTTTTAAACCTTCTTGGGGAATCCAATTTATAGTTGCTTTGATTTAAAGCAA 3000
Qy 2999 GAACAGCAAGGGTGTTCGCGAGGGTAGGATGCTCTTAAAGATGGTCCCTTGAAGAT 3058
Db 3001 GAACAGCAAGGGTGTTCGCGAGGGTAGGATGCTCTTAAAGATGGTCCCTTGAAGAT 3060
Qy 3059 ATGCTTCTGTATCAAGAGTATGATGGTCAAGCAAGGAGGAGAACTTCTTTTAAAT 3118
Db 3061 ATGCTTCTGTATCAAGAGTATGATGGTCAAGCAAGGAGGAGAACTTCTTTTAAAT 3120
Qy 3119 TCCTTCTTCTTTTAAACAAATGGTGAAGATGGAGGATTAAGTCAAGATCAGAT 3178
Db 3121 TCCTTCTTCTTTTAAACAAATGGTGAAGATGGAGGATTAAGTCAAGATCAGAT 3180
Qy 3179 GGCAAAACAATATGGCTGTTCCTTCCATAAACAAAGTGCATTTTTTAAAGTGTGCT 3238
Db 3181 GGCAAAACAATATGGCTGTTCCTTCCATAAACAAAGTGCATTTTTTAAAGTGTGCT 3240
Qy 3239 TACTAAGTCTTGTATTAATTAATCTCTCTTTATTTATATGGAATATAAGAGGAGCA 3298
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Qy 3299 TGTAGCAAAATGACAGTATATCCCTAGCAGAGGCTGTTCACCTTCCCTGTCGATC 3358
Db 3301 TGTAGCAAAATGACAGTATATCCCTAGCAGAGGCTGTTCACCTTCCCTGTCGATC 3360
Qy 3359 CCTTCTGAGGTATGGCCCATCAAGACTTTTAGGCCATTTTATGATGGAACAGATCCCTG 3418
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Qy 3419 CCCTGACTGTCCAGTATCTGAAAGTGGATCAGATTAATACTGGATTAATGAACTG 3478
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Db 3541 TGACTGTGTATATTCATTCAGAGGCGCCATAGTTCAGTTGATTTTATGATCCCTAGATAAG 3600
Qy 3599 AACATGCAATCAGAGGAACTGTGTATACAGGGTAAGCACAGGAGCAATAAGGATTTT 3658
Db 3601 AACATGCAATCAGAGGAACTGTGTATACAGGGTAAGCACAGGAGCAATAAGGATTTT 3660

Qy 3659 TATAGATATAATTAATTTTGTGTTA--TTGGTTAAGGAGA--CAATTTTGGAGAGCAAGCA 3715
Db 3661 TATAGATATAATTTTAAATTTTGGTTAAGGAGACCAATTTTGGAGAGCAAGCA 3720
Qy 3716 AA---TCCTTTTAAAAAATAGTATGAATGTGAATACTAGAAAAGATTTTAAAAAATAGTAT 3772
Db 3721 AATCTTCTTTTAAAAAATAGTATGAATGTGAATACTAGAAAAGATTTTAAAAAATAGTAT 3780
Qy 3773 GAGTGTGAGTACTAGAAAGGAT 3794
Db 3781 GAGTGTGAGTACTAGAAAGGAT 3802

RESULT 3

US-09-023-655-928
; Sequence 928, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA: US/09/023,655
; APPLICATION NUMBER: US/09/023,655
; FILING DATE: HEREWITH
; CLASSIFICATION:
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER:
; FILING DATE:
; CLASSIFICATION:
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 928:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2714 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g1311504
US-09-023-655-928

Query Match 70.9%; Score 2689.6; DB 3; Length 2714;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2692; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

Qy 132 TCACCTCCACACACAGACACAGCGGCACACAGGCTCCGACACACACTTCGCTCTCCC 191
Db 19 TCACACAAACACACAGACACAGCGGCACACAGGCTCCGACACACACTTCGCTCTCCC 78
Qy 192 GCGCGCTCACACCCCTCTTGCCTGAGCCCTTGCCTGAGCGCGCGCGAGCTGGA 251

Db 79 GGGCGCTCACACCCCTCTTGGCCCTGAGCCCTTGGCGGTGACGCGGGCGCGCAGCTGGA 138
Qy 252 CGCCCTCCCGGGCTCACTTTGCAACGTGACGGTGGCGGCGAGTGGCGGTGGGA 311
Db 139 CGCCCTCCCGGGCTCACTTTGCAACGTGACGGTGGCGGCGAGTGGCGGTGGGA 198
Qy 312 ACAGCGGGGCGATCCTCCCGCTGTGTCAAGCCCAAGCCAGGACGCGCGGAACTCTC 371
Db 199 ACAGCGGGGCGATCCTCCCGCTGTGTCAAGCCCAAGCCAGGACGCGCGGAACTCTC 258
Qy 372 GCGTGTCTCTCCATGAGTCGGGATCGCAGATCCCCACAGCGGTCAACCGCTCCG 431
Db 259 GCGTGTCTCTCCATGAGTCGGGATCGCAGATCCCCACAGCGGTCAACCGCTCCG 318
Qy 432 GGAGCGCTGGGCTTTGTACCGCAGCGCTTCCGGGACAGCAGCTGTGACTCCCCCCAG 491
Db 319 GGAGCGCTGGGCTTTGTACCGCAGCGCTTCCGGGACAGCAGCTGTGACTCCCCCCAG 378
Qy 492 TGCAGATTCGGGACAGCTCTCTAGAACTCGCTCTAAAGACGGAACCGCCACAGCATC 551
Db 379 TGCAGATTCGGGACAGCTCTCTAGAACTCGCTCTAAAGACGGAACCGCCACAGCATC 438
Qy 552 AAAGCCCACTGCGGAAGAGGGCAGCGCGCAAGCCCGGCCCTGAGCCTGGACCTTAGC 611
Db 439 AAAGCCCACTGCGGAAGAGGGCAGCGCGCAAGCCCGGCCCTGAGCCTGGACCTTAGC 498
Qy 612 GGTGCGGGCAGCATGCGCGGCTTGGCTTCGCGGAGGTGCGTCTCTTACACTCTC 671
Db 499 GGTGCGGGCAGCATGCGCGGCTTGGCTTCGCGGAGGTGCGTCTCTTACACTCTC 558
Qy 672 AGCTTCGCTGAGGAGACCCCGCCAGCCCACTTTCAGCGCGCAAGTACCTCCAGATAT 731
Db 559 AGCTTCGCTGAGGAGACCCCGCCAGCCCACTTTCAGCGCGCAAGTACCTCCAGATAT 618
Qy 732 GCCCTCGCTCAAGCCCAATATAGCCCTTCCCTCCAGGTTCAGTTATGCGGCGCAGAC 791
Db 619 GCCCTCGCTCAAGCCCAATATAGCCCTTCCCTCCAGGTTCAGTTATGCGGCGCAGAC 678
Qy 792 ATACAGCTCGGAATACACCAAGGATCATGAACCCCGCATACACCAAGCTGACCATGA 851
Db 679 ATACAGCTCGGAATACACCAAGGATCATGAACCCCGCATACACCAAGCTGACCATGA 738
Qy 852 CTTTGGCAGCTGAGATCAGCGCTACAGCACCAGTCCCTGCGGCGCATGACCTT 911
Db 739 CTTTGGCAGCTGAGATCAGCGCTACAGCACCAGTCCCTGCGGCGCATGACCTT 798
Qy 912 CGTGGAGGCTACTCGAGCAACTACGAACTCAAGCCTTCCGCTGTACCAATGACGG 971
Db 799 CGTGGAGGCTACTCGAGCAACTACGAACTCAAGCCTTCCGCTGTACCAATGACGG 858
Qy 972 GCCCTTGATCAAGTGGAGGAGGGGCGGCGCCAGCTACCATCAACCATCAACCA 1031
Db 859 GCCCTTGATCAAGTGGAGGAGGGGCGGCGCCAGCTACCATCAACCATCAACCA 918
Qy 1032 CCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 1091
Db 919 CCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 978
Qy 1092 CAGCCCGGAGGACGAGGTGCTGCCAGCACCCTCCATGTACTTCAAGCAGTCCCGCCGCTC 1151
Db 979 CAGCCCGGAGGACGAGGTGCTGCCAGCACCCTCCATGTACTTCAAGCAGTCCCGCCGCTC 1038
Qy 1152 CACCCCAACACCGCGCTTCCCGCGCAGCGGGGGGCTTATGGGACGAGGCACTGCC 1211
Db 1039 CACCCCAACACCGCGCTTCCCGCGCAGCGGGGGGCTTATGGGACGAGGCACTGCC 1098
Qy 1212 CTCGGGCGCGGCTGATCGCACCGCGCGCTGCTGGACCGCGCATCAAGCGGTCC 1271
Db 1099 CTCGGGCGCGGCTGATCGCACCGCGCGCTGCTGGACCGCGCATCAAGCGGTCC 1158
Qy 1272 CACGTTGGCGCGCGGCTTCCCGCTTCCCACTTCAAGCCCTCGCGCGCGCATCCCC 1331
Db 1159 CACGTTGGCGCGCGGCTTCCCGCTTCCCACTTCAAGCCCTCGCGCGCGCATCCCC 1218

Qy 1332 CGCCCGACCCCGCGCGCGCCACACCTCGGCTACGACCCGACGCGCGCTGCGCGCT 1391
Db 1219 CGCCCGACCCCGCGCGCGCCACACCTCGGCTACGACCCGACGCGCGCTGCGCGCT 1278
Qy 1392 CAGCTCGCGCTGGAGCCGCGCGGAGCGCGCGGAGCGCGCGCGCTTGAAGACCA 1451
Db 1279 CAGCTCGCGCTGGAGCCGCGCGGAGCGCGCGGAGCGCGCGCGCTTGAAGACCA 1338
Qy 1452 CCCGTACGGGCTGCGCGCTGGCCAAAGAGGGCGGCCCGCTGCGCTTCCCGCTCTCGGCT 1511
Db 1339 CCCGTACGGGCTGCGCGCTGGCCAAAGAGGGCGGCCCGCTGCGCTTCCCGCTCTCGGCT 1398
Qy 1512 CACGCTTCCCTACCGGCTCAGCTGCTGGGAGAGTCCAGCTGCGGTGCGCGCT 1571
Db 1399 CACGCTTCCCTACCGGCTCAGCTGCTGGGAGAGTCCAGCTGCGGTGCGCGCT 1458
Qy 1572 CAGCAGGAGCTCGTCTGTCGCGAGGCGACCTGTCGTCGTCGCGGACACGCGCGCTG 1631
Db 1459 CAGCAGGAGCTCGTCTGTCGCGAGGCGACCTGTCGTCGTCGCGGAGACACGCGCGCTG 1518
Qy 1632 CCAGCCTACCGGCTGCGAACCTGCGAGGCTGCAAGGGCTTTTTCAGAGAACAGTGCA 1691
Db 1519 CCAGCCTACCGGCTGCGAACCTGCGAGGCTGCAAGGGCTTTTTCAGAGAACAGTGCA 1578
Qy 1692 GAAAAATGCAAAATATGTTGCTGGCAATAAAAACTGCCAGTAGACAGAGACGTG 1751
Db 1579 GAAAAATGCAAAATATGTTGCTGGCAATAAAAACTGCCAGTAGACAGAGACGTG 1638
Qy 1752 AAACCGATGTCAGTACTGTCGATTTCAAGAGTGTCTCAGTGTGGAAATGAAAAAGAGT 1811
Db 1639 AAACCGATGTCAGTACTGTCGATTTCAAGAGTGTCTCAGTGTGGAAATGAAAAAGAGT 1698
Qy 1812 TGTCCGTACAGATAGTCTGAAAGGAGAGAGGTGCTGCTGCTTCCAAACCAAGAGGCC 1871
Db 1699 TGTCCGTACAGATAGTCTGAAAGGAGAGAGGTGCTGCTGCTTCCAAACCAAGAGGCC 1758
Qy 1872 ATTACAAAGAGACCTTCTCAGCCCTCTCAGCTTCTCTCCATCTCGATGATGAATGC 1931
Db 1759 ATTACAAAGAGACCTTCTCAGCCCTCTCAGCTTCTCTCCATCTCGATGATGAATGC 1818
Qy 1932 CTTTGTCCGAGCTTAAACAGACTCAACACCCAGAGATCTTGATTTATTCAGATATCTGCC 1991
Db 1819 CTTTGTCCGAGCTTAAACAGACTCAACACCCAGAGATCTTGATTTATTCAGATATCTGCC 1878
Qy 1992 CACTGACGAGCTGCTGCAAGCAGAGTCTGAGCATGTGCAACAAATTCACAACTCTCT 2051
Db 1879 CACTGACGAGCTGCTGCAAGCAGAGTCTGAGCATGTGCAACAAATTCACAACTCTCT 1938
Qy 2052 GACAGCTTCCATTTGATGATCCAGAGCTGGGAGAGAAAGATTCGCGGATTTACTGATCT 2111
Db 1939 GACAGCTTCCATTTGATGATCCAGAGCTGGGAGAGAAAGATTCGCGGATTTACTGATCT 1998
Qy 2112 CCCCAGAGAGATCAGACATTTACTTTATTAATTCAGCTTTTGGAGCTGTTGTCTCTCAG 2171
Db 1999 CCCCAGAGAGATCAGACATTTACTTTATTAATTCAGCTTTTGGAGCTGTTGTCTCTCAG 2058
Qy 2172 ACTTTCCATCAGGTCAAAACACTGCTGAAAGATAAGTTTGTGTTCTGCAATGGACTTGTCT 2231
Db 2059 ACTTTCCATCAGGTCAAAACACTGCTGAAAGATAAGTTTGTGTTCTGCAATGGACTTGTCT 2118
Qy 2232 GCATCGACTTCAGTCCCTTCGTGGATTTGGGAGGTGCGCTCGACTCTATTAAAGACTTTTC 2291
Db 2119 GCATCGACTTCAGTCCCTTCGTGGATTTGGGAGGTGCGCTCGACTCTATTAAAGACTTTTC 2178
Qy 2292 CTTAAATTTGACAGCTGAACTTTGATATCAAGCTTTAGCTTCTGCTGCTGACACTGAG 2351
Db 2179 CTTAAATTTGACAGCTGAACTTTGATATCAAGCTTTAGCTTCTGCTGCTGACACTGAG 2238
Qy 2352 CATGATCAGAGAGATGGGTTAAAAAGAACCAAGAGAGGTGGAAGAGCTATGCAACAA 2411
Db 2239 CATGATCAGAGAGATGGGTTAAAAAGAACCAAGAGAGGTGGAAGAGCTATGCAACAA 2298

QY 2412 GATCAACAGCAGTTTAAAGACCCAGAGTAGGAGCAGGCTCTGGAGCCACCGAGTC 2471
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 QY 2299 GATCAACAGCAGTTTAAAGACCCAGAGTAGGAGCAGGCTCTGGAGCCACCGAGTC 2358
 Db |||||
 QY 2472 CAAAGTCTGGTGGCTGGTGAAGTCTGAGGAGATCTGCACCTGGGGCTCCAGGCAAT 2531
 Db |||||
 QY 2359 CAAAGTCTGGTGGCTGGTGAAGTCTGAGGAGATCTGCACCTGGGGCTCCAGGCAAT 2418
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 QY 2532 CTCTACCTGAAGCTGGAAGACTTGGTGCTCCACCTTCCATCATTGACAAGCTCTTCT 2591
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 QY 2479 GGACACCTTACCTTTCTAATCAGGAGCAGTGAGCAGTCTGCTCTCTCTAGCAC 2538
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 QY 2652 CTGCTTGCTACGACAAAGGATAGTTTGGAACTTATCATCTTCTCTCTCTAA 2711
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 QY 2599 GAGGAAAGCAGCTCTCTGTAGAAAGCAAGACTTCTCTTTTCTGCTCTTTTCTTA 2658
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 QY 2772 CAACCTAAAGCCAGAAACTTGCAGAGTATTGTTGGGTTGTGTTTATATTTA 2827
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 QY 2659 CAACCTAAAGCCAGAAACTTGCAGAGTATTGTTGGGTTGTGTTTATATTTA 2714
 Db |||||

RESULT 4
 US-09-949-016-12647
 ; Sequence 12647, Application US/09949016
 ; Patent No. 6812339
 ; GENERAL INFORMATION:
 ; APPLICANT: VENIER, J. Craig et al.
 ; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
 ; FILE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
 ; FILE REFERENCE: CL001307
 ; CURRENT APPLICATION NUMBER: US/09/949,016
 ; CURRENT FILING DATE: 2000-04-14
 ; PRIOR APPLICATION NUMBER: 60/241,755
 ; PRIOR FILING DATE: 2000-10-20
 ; PRIOR APPLICATION NUMBER: 60/237,768
 ; PRIOR FILING DATE: 2000-10-03
 ; PRIOR APPLICATION NUMBER: 60/231,498
 ; PRIOR FILING DATE: 2000-09-08
 ; NUMBER OF SEQ ID NOS: 207012
 ; SOFTWARE: FastSeq for Windows Version 4.0
 ; SEQ ID NO 12647
 ; LENGTH: 47184
 ; TYPE: DNA
 ; ORGANISM: Human
 ; US-09-949-016-12647

Query Match 37.4%; Score 1420.4; DB 3; Length 47184;
 Best Local Similarity 99.7%; Pred No. 3e-304;
 Matches 1434; Conservative 0; Mismatches 1; Indels 3; Gaps 1;

QY 2360 CAGAAAGACATGGGTTAAAGAACCAAGAGAGTCTGAAAGAGTCTGCAACCAAGATCAAA 2419
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 QY 43747 CAGAAAGACATGGGTTAAAGAACCAAGAGAGTCTGAAAGAGTCTGCAACCAAGATCAAA 43806
 Db |||||
 QY 2420 GCAGTTTAAAGACCAACAGAGTAGGAGCAGGCTCTGGAGCCACCGAGTCCAGGTCC 2479
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 QY 43807 GCAGTTTAAAGACCAACAGAGTAGGAGCAGGCTCTGGAGCCACCGAGTCCAGGTCC 43866
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 QY 2480 TGGGTGCTCTGAGAACTGAGGAGATCTGCACCTGGGGCTCCAGGCAATCTTCTACC 2539
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 QY 43867 TGGGTGCTCTGAGAACTGAGGAGATCTGCACCTGGGGCTCCAGGCAATCTTCTACC 43926
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 QY 2540 TGAAGCTGGAAGACTTGGTGCTCTCACTTCCATCATTTGACAAGCTCTTCTGGACACCC 2599
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 QY 43927 TGAAGCTGGAAGACTTGGTGCTCTCACTTCCATCATTTGACAAGCTCTTCTGGACACCC 43986
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QY 2600 TACCTTTCTAATCAGGACAGTGGAGCAGTGGAGCTGCCTCTCTCTCTAGCACCTGCTTGC 2659
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 QY 43987 TACCTTTCTAATCAGGACAGTGGAGCAGTGGAGCTGCCTCTCTCTCTAGCACCTGCTTGC 44046
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 QY 2660 TACGACGAAAGGATAGGTTTGGAAACCTATCATTTCTGTCCTTCTTAAAGAGAAAA 2719
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 QY 44047 TACGACGAAAGGATAGGTTTGGAAACCTATCATTTCTGTCCTTCTTAAAGAGAAAA 44106
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 QY 44107 GCAGCTCTGTAGAAAGCAAGACTTTCTTTTTTCTGGCTCTTTTCTTAAACCTTAA 44166
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 QY 2780 AGCCAGAAAACTTGCAGAGTATTGTTGGGGTGTGTTTATATTTAGGCAATGGGGGA 2839
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 QY 44167 AGCCAGAAAACTTGCAGAGTATTGTTGGGGTGTGTTTATATTTAGGCAATGGGGGA 44226
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 QY 44227 TGGGTGGAGGGGGTATAGTTTCAATGAGGGTTTTCTAAGAAATTTGCTTAAACAGCATT 44286
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 QY 2900 TTGGCAATGCTATCCAGCAGGAAAAAGGATAATATACTGTTTAAACCTCTTTC 2959
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 QY 44287 TTGGCAATGCTATCCAGCAGGAAAAAGGATAATATACTGTTTAAACCTCTTTC 44346
 Db |||||
 QY 2960 TGGGGAATCCAAATATAGTTGCTTTGATTTAAAAAAGAACAGCAGGAGTGTTCGC 3019
 Db |||||
 QY 44347 TGGGGAATCCAAATATAGTTGCTTTGATTTAAAAAAGAACAGCAGGAGTGTTCGC 44406
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 QY 3020 CAGGTAGGATGTGCTTTAAAGATTGGTCTCTGAAAAATATGCTTCTGTAATCAAGGTA 3079
 Db |||||
 QY 44407 CAGGTAGGATGTGCTTTAAAGATTGGTCTCTGAAAAATATGCTTCTGTAATCAAGGTA 44466
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 QY 3080 CGTATGCTGCAAAACAAGGAGAACTTCTTTTAAATTTCTTCTTCTTCTTCTTAAAC 3139
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 QY 44467 CGTATGCTGCAAAACAAGGAGAACTTCTTTTAAATTTCTTCTTCTTCTTCTTAAAC 44526
 Db |||||
 QY 3140 AAATGCTGAAGATGGAGGATCTCAAAATCAGACATGCAACCAATATGCTGTTTAAAC 3199
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 QY 44527 AAATGCTGAAGATGGAGGATCTCAAAATCAGACATGCAACCAATATGCTGTTTAAAC 44586
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 QY 3200 TGCTTCCATAAAACAAGTGAATTTTTTAAAGTGTCTCTAAGTCTTCTGTTTAAAC 3259
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 QY 44587 TGCTTCCATAAAACAAGTGAATTTTTTAAAGTGTCTCTAAGTCTTCTGTTTAAAC 44646
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 QY 3260 TCTCTTTATTTCTATATGGAATATAAAGGAGGAGTCAATGTTAGCAATGACAGTTAA 3319
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 QY 44647 TCTCTTTATTTCTATATGGAATATAAAGGAGGAGTCAATGTTAGCAATGACAGTTAA 44706
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RESULT 5

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US-09-949-016-15531
; Sequence 15531, Application US/09949016
; Patent No. 6812339
; GENERAL INFORMATION:
; APPLICANT: VENTER, J. Craig et al.
; TITLE OF INVENTION: POLYMORPHISMS IN KNOWN GENES ASSOCIATED
; TITLE OF INVENTION: WITH HUMAN DISEASE, METHODS OF DETECTION AND USES THEREOF
; FILE REFERENCE: CL001307
; CURRENT APPLICATION NUMBER: US/09/949,016
; CURRENT FILING DATE: 2000-04-14
; PRIOR APPLICATION NUMBER: 60/241,755
; PRIOR FILING DATE: 2000-10-20
; PRIOR APPLICATION NUMBER: 60/237,768
; PRIOR FILING DATE: 2000-10-03
; PRIOR APPLICATION NUMBER: 60/231,498
; PRIOR FILING DATE: 2000-09-08
; NUMBER OF SEQ ID NOS: 207012
; SOFTWARE: FastSeq for Windows Version 4.0
; SEQ ID NO 15531
; LENGTH: 47184
; TYPE: DNA
; ORGANISM: Human
US-09-949-016-15531

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	Query Match	37.4%; Score 1420.4; DB 3; Length 47184;	
	Best Local Similarity 99.7%; Pred. No. 3e-304;		
	Matches 1434; Conservative 0; Mismatches 1; Indels 3; Gaps 1;		
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Dd	43807	GCAGTTTAAAGACCAACCCAGAGTAAGGGACAGGCTCTGGAGCCCCACCGAGTCCAAGGTCC	43866
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Dd	43867	TGGGTGCCCTGGTAGAACTGAGGAAGATCTGCACCTCGGGCCTCAGGGCATCTCTTACC	43926
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Dd	43927	TGAAGCTGGAAGACTTGGTGCTCCACCTTCCATCATTTGACAAGCTCTTCCGTGGACACC	43986
Qy	2600	TACCTTCTTAATCAGGAGCAGTGGAGCAGTGAGCTGCCTCTCTCTAGCACCTCTCTTGC	2659
Dd	43987	TACCTTCTTAATCAGGAGCAGTGGAGCAGTGAGCTGCCTCTCTCTAGCACCTCTCTTGC	44046
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Dd	44107	GCAGCTCCTGAGAAACCAAGACTTCTTTTTTCTGGCTCTTCTTACACCTAA	44166
Qy	2780	AGCCAGAAAACTTCGACAGTATTGTGTGGGGTGTGTTTTATATTAGGCCATTGGGGGA	2839
Dd	44167	AGCCAGAAAACTTCGACAGTATTGTGTGGGGTGTGTTTTATATTAGGCCATTGGGGGA	44226
Qy	2840	TGGGGTGGGAGGGGGTTTATAGTTCAAGAGGGTTTTCTAAAGAAATGCTAACAAAGCATTT	2899
Dd	44227	TGGGGTGGGAGGGGGTTTATAGTTCAAGAGGGTTTTCTAAAGAAATGCTAACAAAGCATTT	44286

RESULT 6

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RESULT 6
US-09-023-655-1400
; Sequence 1400, Application US/09023655
; Patent No. 6607879
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; APPLICANT: Susan G. Stuart
; APPLICANT: Jeffery J. Seihamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENE
; TITLE OF INVENTION: EXPRESSION
; NUMBER OF SEQUENCES: 1508

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; APPLICANT: Jeffrey J. Seilhamer
 ; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL GENOME
 ; TITLE OF INVENTION: EXPRESSION
 ; NUMBER OF SEQUENCES: 1508

Pred. No. is the number of results predicted by chance to have a score greater than or equal to the score of the result being printed, and is derived by analysis of the total score distribution.

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QY 3001 ACAGCAAGGTTGTTCCGAGGTAGGATGTCTTAAAGATTGGTCCCTTGAATAAT 3060
Db 3001 ACAGCAAGGTTGTTCCGAGGTAGGATGTCTTAAAGATTGGTCCCTTGAATAAT 3060
QY 3061 GCTTCTCTATCAAGGTAAGTGTGTGCAACAAGCGCAACTTCTTTTAAATTC 3120
Db 3061 GCTTCTCTATCAAGGTAAGTGTGTGCAACAAGCGCAACTTCTTTTAAATTC 3120
QY 3121 CTTCTTCTTTTATTTTAAACAAATGTTGAAAGATGGAGGATTACCTTACAAATCAGACATGG 3180
Db 3121 CTTCTTCTTTTATTTTAAACAAATGTTGAAAGATGGAGGATTACCTTACAAATCAGACATGG 3180
QY 3181 CAAACAAATATGCTGTTGCTTCCATPAAACAAGTGCAATTTTAAAGTGTGCTTA 3240
Db 3181 CAAACAAATATGCTGTTGCTTCCATPAAACAAGTGCAATTTTAAAGTGTGCTTA 3240
QY 3241 CTAAGTCTGTTTATTAATCTCTTTTATTTATATGGAATTAAGAGGCGAGTCATG 3300
Db 3241 CTAAGTCTGTTTATTAATCTCTTTTATTTATATGGAATTAAGAGGCGAGTCATG 3300
QY 3301 TTAGCAATGACAGTAAATATCCCTAGCAGAGGCTGTGTTTCACTTCCCTGTGATCCC 3360
Db 3301 TTAGCAATGACAGTAAATATCCCTAGCAGAGGCTGTGTTTCACTTCCCTGTGATCCC 3360
QY 3361 TTCTGAGGTATGGCCCATCCAAAGACTTTTATAGGCCATTTCTGATGAAACCATCCCTGCC 3420
Db 3361 TTCTGAGGTATGGCCCATCCAAAGACTTTTATAGGCCATTTCTGATGAAACCATCCCTGCC 3420
QY 3421 CTGACTGTCCAGCTATCCTGAAAGTGGATCAGATTATATACTGATTTACATGTTA 3480
Db 3421 CTGACTGTCCAGCTATCCTGAAAGTGGATCAGATTATATACTGATTTACATGTTA 3480
QY 3481 TTGGTTGTGTTCTTATCAACCCACAGAGTTCCCTTAAACTTGTCTTCACTTATAGTAACTG 3540
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Db 3481 TTGGTTGTGTTCTTATCAACCCACAGAGTCCCTTAAACTTCTTCACTTATAGTAACTG 3540
QY 3541 ACTGATATATTCATTTCAGAACGCCATTAAGTCAGTTGAGTATTTGATCCCTAGATAAGAA 3600
Db 3541 ACTGATATATTCATTTCAGAACGCCATTAAGTCAGTTGAGTATTTGATCCCTAGATAAGAA 3600
QY 3601 CATGCAATCAGCAGGAAGTGTCTATACAGGTTAGCACCAGGGAACAATAAGGATTTTA 3660
Db 3601 CATGCAATCAGCAGGAAGTGTCTATACAGGTTAGCACCAGGGAACAATAAGGATTTTA 3660
QY 3661 TAGATATATTTAATTTTGTATTGTTTAAAGGAGCAAAATTTTGAGAGCAGCAAACTCT 3720
Db 3661 TAGATATATTTAATTTTGTATTGTTTAAAGGAGCAAAATTTTGAGAGCAGCAAACTCT 3720
QY 3721 TTTTAAAAAATAGTATGAATGTGAATACTAGAAAGATTTAAAAAATAGTATGAGTGGA 3780
Db 3721 TTTTAAAAAATAGTATGAATGTGAATACTAGAAAGATTTAAAAAATAGTATGAGTGGA 3780
QY 3781 GTACTAGGAAGGAT 3794
Db 3781 GTACTAGGAAGGAT 3794

RESULT 2
US-09-853-386-46
; Sequence 46, Application US/09853386
; Patent No. US20020049151A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Evelyn
; APPLICANT: Bresnihan, Barry
; APPLICANT: Conneely, Orla
; APPLICANT: Fitzgerald, Oliver
; TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR
; FILE OF INVENTION: Subfamily of Nuclear Transcription Factors
; FILE REFERENCE: P01972US1
; CURRENT APPLICATION NUMBER: US/09/853,386
; CURRENT FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/203645
; PRIOR FILING DATE: 2000-05-12
; NUMBER OF SEQ ID NOS: 153
; SOFTWARE: PatentIn version 3.1
; SEQ ID NO 46
; LENGTH: 3802
; TYPE: DNA
; ORGANISM: HUMAN
US-09-853-386-46

Query Match 98.1%; Score 3722; DB 3; Length 3802;
Best Local Similarity 99.4%; Pred. No. 0;
Matches 3779; Conservative 0; Mismatches 15; Indels 8; Gaps 4;

QY 1 ATAAATGACGTGCGGAGAGCGAGCGAAACGCGCAGCGCGGAGAGCGGAGTCTCTCGCT 60
Db 1 ATAAATGACGTGCGGAGAGCGAGCGAAACGCGCAGCGCGGAGAGCGGAGTCTCTCGCT 60
QY 61 CCGCGCCCGCCACCCCTCCAGCTCTCTGCTCTCTCCCGTCCCATACACAGCGGCTCA 120
Db 61 CCGCGCCCGCCACCCCTCCAGCTCTCTGCTCTCTCCCGTCCCATACACAGCGGCTCA 120
QY 121 CACCGCGTCCCTCACTCGCACACAGACCAAGCGCGCACACAGGCTCCG-CACACAC 178
Db 121 CACCGCGTCCCTCACTCGAACACACAGACCAAGCGCGCACACAGGCTCCGACACAC 180
QY 179 ACTTCGCTCTCCCGCGGCTCACACCCCTCTTTCCTTTCGAGCCCTTTCGCGGTGACGCGG 238
Db 181 ACTTCGCTCTCCCGCGGCTCACACCCCTCTTTCCTTTCGAGCCCTTTCGCGGTGACGCGG 240
QY 239 CGCGCGAGCTGGAGCGCCCTCCCGGGCTCACTTTGCAACGCTGACGCTGCCGCGAGTGGC 298
Db 241 CGCGCGAGCTGGAGCGCCCTCCCGGGCTCACTTTGCAACGCTGACGCTGCCGCGAGTGGC 300
QY 299 CGTGGAGGTGGGAACAGCGCGGCGCATCTCTCCCTTGTGTCAAGCCCAAGCCAGGACGCC 358
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301 CGTGAAGTGGGAACAGCGGGGCAATCTTCCCCCTGGTCA CAGCCCAAGCCAGCGACGCC 360
QY
359 CGCGGAACCTCTCGGCTGTGCTCTCCATGAGTGGGATCGGAGCATCCCCCAACAGCCG 418
Db
361 CGCGGAACCTCTCGGCTGTGCTCTCCATGAGTGGGATCGGAGCATCCCCCAACAGCCG 420
QY
419 CTCAACGGCTCCGGAGAGCGCTGGGCTTGTACACCGAGCCCTTCCGGGACAGAGCTGT 478
Db
421 CTCACGGCTCCGGAGAGCGCTGGGCTTGTACACCGAGCCCTTCCGGGACAGAGCTGT 480
QY
479 GACTCCCCCAGTGCAGATTCGGGACAGCTCTCTAGAACTCGCTCTAAAGACGGAAAC 538
Db
481 GACTCCCCCAGTGCAGATTCGGGACAGCTCTCTAGAACTCGCTCTAAAGACGGAAAC 540
QY
539 CGCCACAGCACTCAAGCCCACTGCGGAAGGGCAGCCCCCGCAAGCCCGGSCCTTGAGC 598
Db
541 CGCCACAGCACTCAAGCCCACTGCGGAAGGGCAGCCCCCGCAAGCCCGGSCCTTGAGC 600
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Db
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Db
721 ACCCTCCAGATATGCCCTGCTCAAGCCCAATATAGCCCTTCCCCTCCAGGTTCCAGTT 780
QY
779 ATGCGGCGCAGACATACAGCTCGGAATACACACGGAGATCATGAACCCCGACTACACA 838
Db
781 ATGCGGCGCAGACATACAGCTCGGAATACACACGGAGATCATGAACCCCGACTACACA 840
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839 AGCTGACCATGACACTTGGAGCACTTGAGATCAAGCTACAGCCACCAAGCTCCCTGCCCA 898
Db
841 AGCTGACCATGACACTTGGAGCACTTGAGATCAAGCTACAGCCACCAAGCTCCCTGCCCA 900
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899 GCATCAGTACCTTCGTGGAGGGCTACTCGAGCAACTACGAACTCAAGCTTCCTCGGTG 958
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901 GCATCAGTACCTTCGTGGAGGGCTACTCGAGCAACTACGAACTCAAGCTTCCTCGGTG 960
QY
959 ACCAAATGACGGCGCTTGATCAAAATGGAGAGGGGGGGCGCCGCTACCATCACCC 1018
Db
961 ACCAAATGACGGCGCTTGATCAAAATGGAGAGGGGGGGCGCCGCTACCATCACCC 1020
QY
1019 ATCACCACCAACACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 1078
Db
1021 ATCACCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 1080
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1081 TTCTCTCCAGCTCCAGCCCGGAGGACGAGGTGCTGCCAGCACTTCCATGTACTTCAAGC 1140
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1139 AGTCCCGACCTGCAACCCCAACAGCCGGCTTCCCGCGCAGGCGGGGGGGTATGGG 1198
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1141 AGTCCCGACCTGCAACCCCAACAGCCGGCTTCCCGCGCAGGCGGGGGGGTATGGG 1200
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1199 ACGAGGCACTGCTCGGCGCGCGCTGCATCGCACCCGGCGCTGCTGGACCCCGCGCA 1258
Db
1201 ACGAGGCACTGCTCGGCGCGCGCTGCATCGCACCCGGCGCTGCTGGACCCCGCGCA 1260
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1259 TGAAGCGGTCCCCACGCTGGCGCGCGCTTCCCGCTTCTTCACTTTCAAGCCCTCGC 1318
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1261 TGAAGCGGTCCCCACGCTGGCGCGCGCTTCCCGCTTCTTCACTTTCAAGCCCTCGC 1320
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1319 CGCGGATCCCCCG 1378
Db
1321 CGCGGATCCCCCG 1380
QY
1379 CGGCTGCGCGCTGACGCTGCGCTGGAGCGCGAGCGCGCGCGCGCGCGCGCGCGCGCGCG 1438
Db
|||||

Db
1381 CCGCTCGCGGCTCAGCTCGCTGGAGCGCGCAGCGCGCGCGCGCGCGCGCGCGCGCGCG 1440
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1439 CGCTTGAGAGCACCCGTACGGGCTGCGCTGGCAAGAGGGCGCGCGCGCGCGCTTCC 1498
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1441 CGCTTGAGGGCCACCCGTACGGGCTGCGCTGGCAAGAGGGCGCGCGCGCGCGCTTCC 1500
QY
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Db
1501 CGCTCTCGGCTCAGCGCTCCCTACCGCTCAGCGCTGCTGGCGAGAGTCCAGGCC 1560
QY
1559 TGCGCTCGCGCCCGCAGCAGGAGCTCGTCTGCTGGCGAGGGCACGTGCTGCTGCGGG 1618
Db
1561 TGCGCTCGCGCCCGCAGCAGGAGCTCGTCTGCTGGCGAGGGCACGTGCTGCTGCGGG 1620
QY
1619 ACAACGCGCTCGCGCCCGCAGCACTACGGCGTGCAGAACTGCGAGGGCTGCAGAGGCTTTTCA 1678
Db
1621 ACAACGCGCTCGCGCCCGCAGCACTACGGCGTGCAGAACTGCGAGGGCTGCAGAGGCTTTTCA 1680
QY
1679 AGAGACAGTGCAGAAATGCAAAATATGTTTCCCTGGCAAAATAAAACTGCCAGTAG 1738
Db
1681 AGAGACAGTGCAGAAATGCAAAATATGTTTCCCTGGCAAAATAAAACTGCCAGTAG 1740
QY
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Db
1741 ACAAGAGACGTCGAAACCGGATGTCAGTACTGTCGATTTTCAAGTGTCTCAAGTGTGAA 1800
QY
1799 TGGTAAAGAGATTTGTCGTAACAGATAGTCTGAAAGGGAGAGAGTGTCTGCTTCCA 1858
Db
1801 TGGTAAAGAGATTTGTCGTAACAGATAGTCTGAAAGGGAGAGAGTGTCTGCTTCCA 1860
QY
1859 AACCAAGAGAGCCATTAACAGAGAACTTCTCAGCCCTTCCACCTTCTCTCCAACT 1918
Db
1861 AACCAAGAGAGCCATTAACAGAGAACTTCTCAGCCCTTCCACCTTCTCTCCAACT 1920
QY
1919 GCATGATGAATGCTTGTCTCGAGCTTTAAACAGACTCAACACCCAGAGATCTTGATTT 1978
Db
1921 GCATGATGAATGCTTGTCTCGAGCTTTAAACAGACTCAACACCCAGAGATCTTGATTT 1980
QY
1979 CCAGATCTGCTCCACTGACAGGCTGCTGAGGACAGATGCTGAGGATGTCGAACT 2038
Db
1981 CCAGATCTGCTCCACTGACAGGCTGCTGAGGACAGATGCTGAGGATGTCGAACT 2040
QY
2039 TCTCAACCTCTGACAGCTTCCATGATGATGATGATGATGATGATGATGATGATGATGATG 2098
Db
2041 TCTCAACCTCTGACAGCTTCCATGATGATGATGATGATGATGATGATGATGATGATG 2100
QY
2099 GATTTACTGATCTCCCAAGAGAGATCAGACATTAATTTGAATCAGCCCTTTTGGAGC 2158
Db
2101 GATTTACTGATCTCCCAAGAGAGATCAGACATTAATTTGAATCAGCCCTTTTGGAGC 2160
QY
2159 TGTGTTGCTCAGACTTTCATCAGGTCAACACATGCTGGAAGATAAGTTTGTGTTCTGCA 2218
Db
2161 TGTGTTGCTCAGACTTTCATCAGGTCAACACATGCTGGAAGATAAGTTTGTGTTCTGCA 2220
QY
2219 ATGAGCTTGTCTGCATCGACTTCAAGCTTCTGAGATTTGGGAGTGGCTCGACTCTA 2278
Db
2221 ATGAGCTTGTCTGCATCGACTTCAAGCTTCTGAGATTTGGGAGTGGCTCGACTCTA 2280
QY
2279 TTAAGAGCTTTTCTTAAATTTGAGAGCTGAACTTTGATATCAAGCTTTAGCCTGCG 2338
Db
2281 TTAAGAGCTTTTCTTAAATTTGAGAGCTGAACTTTGATATCAAGCTTTAGCCTGCG 2340
QY
2339 TGTGAGCACTGAGCATGATCAAGAGACATGGTTAAAGAACCAAGAGAGTTCGAG 2398
Db
2341 TGTGAGCACTGAGCATGATCAAGAGACATGGTTAAAGAACCAAGAGAGTTCGAG 2400
QY
2399 AGCTATGCAACAGATCAAGAGAGTTTTAAAGACCAACAGAGTAAAGGACAGGCTCTGG 2458
Db
2401 AGCTATGCAACAGATCAAGAGAGTTTTAAAGACCAACAGAGTAAAGGACAGGCTCTGG 2460
QY
2459 AGCCACCGAGTCCAGGTCCTGGTGCCTGGTGAAGCTGAGGAGAGTCTGCAACCTGG 2518
Db
2461 AACCCAAAGAGTCCAGGTCCTGGTGCCTGGTGAAGCTGAGGAGAGTCTGCAACCTGG 2520
QY
|||||

QY 2519 GCCTCCAGCGCATCTTTCTACCTGAAGCTGGAGACTTGGTGCTCCACCTTCCATCATTTG 2578
DB 2521 GCCTCCAGCGCATCTTTCTACCTGAAGCTGGAGACTTGGTGCTCCACCTTCCATCATTTG 2580
QY 2579 ACAAGCTCTTCTCGACACCCCTTCTTCTTAATCAAGGAGCACTGGAGCAGTGAGCTGCCT 2638
DB 2581 ACAAGCTCTTCTCGACACCCCTTCTTCTTAATCAAGGAGCACTGGAGCAGTGAGCTGCCT 2640
QY 2639 CCTCTCCCTAGCAGCTGCTGCTTACCGAGCAAGGATAGGTTTGAACCTTATCATTTCC 2698
DB 2641 CCTCTCCCTAGCAGCTGCTTCTTACCGAGCAAGGATAGGTTTGAACCTTATCATTTCC 2700
QY 2699 TGTCTCTTCTTAAGAGGAAAGCAGCTCTCTGTAGAAAGCAAGACTTCTTTTCTTCTG 2758
DB 2701 TGTCTCTTCTTAAGAGGAAAGCAGCTCTCTGTAGAAAGCAAGACTTCTTTTCTTCTG 2760
QY 2759 GCTCTTTTCTTAAACCTTAAAGCAGAAACCTTCGACAGTATGTGTGGGTTGTCTT 2818
DB 2761 GCTCTTTTCTTAAACCTTAAAGCAGAAACCTTCGACAGTATGTGTGGGTTGTCTT 2820
QY 2819 TTATATTTAGGATTTGGGGATGGGGTGGGGGTTATAGTTTCATGAGGTTTCTTAA 2878
DB 2821 TTATATTTAGGATTTGGGGATGGGGTGGGGGTTATAGTTTCATGAGGTTTCTTAA 2880
QY 2879 GAAATTTGCTTAAACCAAGCACTTTTGACCAATGCTATCCAGCAGGAAAAAAGGATAATA 2938
DB 2881 GAAATTTGCTTAAACCAAGCACTTTTGACCAATGCTATCCAGCAGGAAAAAAGGATAATA 2940
QY 2939 TAATCTTTTAAACCTTTCTGGGAAATCAATATATAGTTGCTTTGTTATTTAAACAA 2998
DB 2941 TAATCTTTTAAACCTTTCTGGGAAATCAATATATAGTTGCTTTGTTATTTAAACAA 3000
QY 2999 GAACAGCAAGGTTGTTGCGCAGGTTAGGATGTCTTAAAGATTGCTCCCTTGAATAT 3058
DB 3001 GAACAGCAAGGTTGTTGCGCAGGTTAGGATGTCTTAAAGATTGCTCCCTTGAATAT 3060
QY 3059 ATGCTTCTCTGTATCAAGGTAAGTATGTGTGCAACCAAGGAGCAAACTTCTTTTAAAT 3118
DB 3061 ATGCTTCTCTGTATCAAGGTAAGTATGTGTGCAACCAAGGAGCAAACTTCTTTTAAAT 3120
QY 3119 TCCTTCTCTTTTATTTTAAACAAATGTTGAAGATGGAAGTATACCTACAAATCAGACAT 3178
DB 3121 TCCTTCTCTTTTATTTTAAACAAATGTTGAAGATGGAAGTATACCTACAAATCAGACAT 3180
QY 3179 GGCAGCAACAAATAGGCTGTTTGTCTCCATTAACCAAGTGCAATTTTAAAGTGTCT 3238
DB 3181 GGCAGCAACAAATAGGCTGTTTGTCTCCATTAACCAAGTGCAATTTTAAAGTGTCT 3240
QY 3239 TACTAAGTCTTGTATTTTAACTCTCTTTTATTTCTATATGGAATAAAGAGGAGGAGTCA 3298
DB 3241 TACTAAGTCTTGTATTTTAACTCTCTTTTATTTCTATATGGAATAAAGAGGAGGAGTCA 3300
QY 3299 TGTAGCAAAATGACAGTTAATATCCCTAGCAGGCTGTCTTCACTTCCCTTGTGATC 3358
DB 3301 TGTAGCAAAATGACAGTTAATATCCCTAGCAGGCTGTCTTCACTTCCCTTGTGATC 3360
QY 3359 CCTTCTGAGGTATGCGCCATCCAGACTTTTGTAGGCCATTTCTGTAGTGNACAGATCCCTG 3418
DB 3361 CCTTCTGAGGTATGCGCCATCCAGACTTTTGTAGGCCATTTCTGTAGTGNACAGATCCCTG 3420
QY 3419 CCTTCTGAGGTATGCGCCATCCAGACTTTTGTAGTGNACAGATTTAATGATTAATGAT 3478
DB 3421 CCTTCTGAGGTATGCGCCATCCAGACTTTTGTAGTGNACAGATTTAATGATTAATGAT 3480
QY 3479 TTTTGGTGTGTTTCTATCAACCCCAAGAGTTCCCTTAACTTCTTCAAGTTATAGTAAC 3538
DB 3481 TTTTGGTGTGTTTCTATCAACCCCAAGAGTTCCCTTAACTTCTTCAAGTTATAGTAAC 3540
QY 3539 TGACTGTGTATTTTCTTCAAGAGGCCATAGTGTGATTTGATCCCTTATAGTAAG 3598
DB 3541 TGACTGTGTATTTTCTTCAAGAGGCCATAGTGTGATTTGATTTGATCCCTTATAGTAAG 3600

QY 3599 AACATGCAAAATCAGCAGGAACCTGGTTCATACAGGTTAAGCACAGGCACAATAAGGATTTT 3658
DB 3601 AACATGCAAAATCAGCAGGAACCTGGTTCATACAGGTTAAGCACAGGCACAATAAGGATTTT 3660
QY 3659 TATAGATATAAATTTAATTTTGTTA--TTGGTTAAGGAGA-CAATTTTGGAGAGCAAGCA 3715
DB 3661 TATAGATATAAATTTAATTTTGTAA--TTGGTTAAGGAGACCAATTTTGGAGAGCAAGCA 3720
QY 3716 AA---TCTTTTAAATAATAGTATGAATGTGAATCTAGAAAAGATTTTAAATAATAGTAT 3772
DB 3721 AATCTTCTTTTAAATAATAGTATGAATGTGAATCTAGAAAAGATTTTAAATAATAGTAT 3780
QY 3773 GAGTGTGAGTACTAGGAAGGAT 3794
DB 3781 GAGTGTGAGTACTAGGAAGGAT 3802

RESULT 3

US-09-853-386-78
; Sequence 78, Application US/09853386
; Patent No. US20020049151A1
; GENERAL INFORMATION:
; APPLICANT: Murphy, Evelyn
; APPLICANT: Bresnihan, Barry
; APPLICANT: Conneely, Orla
; APPLICANT: Fitzgerald, Oliver
; TITLE OF INVENTION: Therapeutic Approaches to Diseases by Suppression of the NURR
; TITLE OF INVENTION: Subfamily of Nuclear Transcription Factors
; FILE REFERENCE: P01972U51
; CURRENT APPLICATION NUMBER: US/09/853,386
; PRIOR FILING DATE: 2001-05-11
; PRIOR APPLICATION NUMBER: US 60/203645
; PRIOR FILING DATE: 2000-05-12
; NUMBER OF SEQ ID NOS: 153
; SOFTWARE: Patent in version 3.1
; SEQ ID NO 78
; LENGTH: 3802
; TYPE: DNA
; ORGANISM: HUMAN
US-09-853-386-78

Query Match 98.1%; Score 3722; DB 3; Length 3802;

Best Local Similarity 99.4%; Pred. No. 0;

Matches 3779; Conservative 0; Mismatches 15; Indels 8; Gaps 4;

QY 1 ATAAATGACGTGCGAGAGAGCGAGCGAAACGCGAGCGCGGAGAGCGGAGTCTCTGCT 60
DB 1 ATAAATGACGTGCGAGAGAGCGAGCGAAACGCGAGCGCGGAGAGCGGAGTCTCTGCT 60
QY 61 CCGCGCCCCCAGCCCTCCAGCTCTGCTCTCTCTCGCTCCCATACACAGCGGCTCA 120
DB 61 CCGCGCCCCCAGCCCTCCAGCTCTGCTCTCTCTCGCTCCCATACACAGCGGCTCA 120
QY 121 CACCGCT 178
DB 121 CACCGCT 180
QY 179 ACTTGGCT 238
DB 181 ACTTGGCT 240
QY 239 CGCGCAGCTGGAACGCGCCCTCCCGGCTCACTTTGCAACCTGACGCTGCGGAGTGGC 298
DB 241 CGCGCAGCTGGAACGCGCCCTCCCGGCTCACTTTGCAACCTGACGCTGCGGAGTGGC 300
QY 299 CGTGGAGGTGGGAACAGCGGCGGATCTCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCT 358
DB 301 CGTGGAGGTGGGAACAGCGGCGGATCTCTCCCTCTCTCTCTCTCTCTCTCTCTCTCTCT 360
QY 359 CGCGGAACCTCTCTGCTGTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 418
DB 361 CGCGGAACCTCTCTGCTGTGCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCTCT 420

Qy	419	CTCACCGCTCCCGGAGCGCGTGGCTTTGTACACCGCAGCCCTTCGCGGACAGCAGCTGT	478
Db	421	CTCACCGCTCCGGGAGCCGCTGGCTTGTACACCGCAGCCCTTCGCGGACAGCAGCTGT	480
Qy	479	GACTCCCCCAGTGCAGATTTTCGGGACAGTCTCTAGAACTCGCTCTAAAGACGGAAC	538
Db	481	GACTCCCCCAGTGCAGATTTTCGGGACAGTCTCTAGAACTCGCTCTAAAGACGGAAC	540
Qy	539	CGCCACAGCACTCAAAGCCCACTCGCGAAGAGGGCAGCCCGGCAAGCCCGGGCCCTGAGC	598
Db	541	CGCCACAGCACTCAAAGCCCACTCGCGAAGAGGGCAGCCCGGCAAGCCCGGGCCCTGAGC	600
Qy	599	CTGACCCCTTAGCGGTGCGGGCAGCACTGCGCGCGCTTCGCTTCGCCGACGTCGCTC	658
Db	601	CTGACCCCTTAGCGGTGCGGGCAGCACTGCGCGCGCTTCGCTTCGCCGACGTCGCTC	660
Qy	659	CTCCTACACTCTCAGCCTCGCTGGAGAGACCCCGCAGCCCACTTACGGGCGCAAGAT	718
Db	661	CTCCTACACTCTCAGCCTCGCTGGAGAGACCCCGCAGCCCACTTACGGGCGCAAGAT	720
Qy	719	ACCTCTCAGATATGCCCTGCGTCCAAGCCCAATATAGCCCTTCCCTCCAGGTTCCAGTT	778
Db	721	ACCTCTCAGATATGCCCTGCGTCCAAGCCCAATATAGCCCTTCCCTCCAGGTTCCAGTT	780
Qy	779	ATCGCGCGCAGACATACAGCTCGGAATACACCAACGAGATCATGAACCCCGACTACACCA	838
Db	781	ATCGCGCGCAGACATACAGCTCGGAATACACCAACGAGATCATGAACCCCGACTACACCA	840
Qy	839	AGCTGACCATGGACTTTGGCAGCACTGAGATCAACGCTACAGCCACACAGTCCTCGCCCA	898
Db	841	AGCTGACCATGGAGCTTTGGCAGCACTGAGATCAACGCTTACAGCCACACAGTCCTCGCCCA	900
Qy	899	GCATCAGTACCTTCGTGAGGGCTACTCGAGCAACTACGAACCTCAAGCCTTTCCTGCGTGT	958
Db	901	GCATCAGTACCTTCGTGAGGGCTACTCGAGCAACTACGAACCTCAAGCCTTTCCTGCGTGT	960
Qy	959	ACCAAAATGACAGCGCCCTTGATCAAAGTGGAGGAGGGCGGGCGCCAGCTACCATCACC	1018
Db	961	ACCAAAATGACAGCGCCCTTGATCAAAGTGGAGGAGGGCGGGCGCCAGCTACCATCACC	1020
Qy	1019	ATCACCAACCAACACCAACCAACCAACCATACACGAGCAGCAGCATCAGCAGCATCCA	1078
Db	1021	ATCACCAACCAACCAACCAACCAACCAACCATACACGAGCAGCAGCATCAGCAGCATCCA	1080
Qy	1079	TTCTCTCAGCCTCCAGCGCCGAGGACAGAGTGCTGCCAGCACCTCCATGTACTTCAAGC	1138
Db	1081	TTCTCTCAGCCTCCAGCGCCGAGGAGAGAGTGCTGCCAGCACCTCCATGTACTTCAAGC	1140
Qy	1139	AGTCCCCACCGTCAACCCCAACACCGCGCTTTCCTCCCGCAGCGGGGGCGTATGGG	1198
Db	1141	AGTCCCCACCGTCAACCCCAACACCGCGCTTTCCTCCCGCAGCGGGGGCGTATGGG	1200
Qy	1199	ACGAGGCACTGCGCTTCGGGCGCCGGCTGTCATCGCAACCGGGCCCGCTGCTGGACCCCGCGA	1258
Db	1201	ACGAGGCACTGCGCTTCGGGCGCCGGCTGTCATCGCAACCGGGCCCGCTGCTGGACCCCGCGA	1260
Qy	1259	TGAAGGGGTGTCCTCACAGGTGCGCGCTTTCCTCCCTTCCACTTCAAGCCCTCGC	1318
Db	1261	TGAAGGGGTGTCCTCACAGGTGCGCGCTTTCCTCCCTTCCACTTCAAGCCCTCGC	1320
Qy	1319	CGCCGATCCCCCGCCAGCCCGGCGCGGCCACCACTTCGGCTACGACCCGACGG	1378
Db	1321	CGCCGATCCCCCGCCAGCCCGGCGGCCACCACTTCGGCTACGACCCGACGG	1380
Qy	1379	CGCTGCGCGCTCAGCCTGCGCTGGAGCGGACGCGCGCGGGCAGCCAGCGCGCGG	1438
Db	1381	CGCTGCGCGCTCAGCCTGCGCTGGAGCGGACGCGCGCGGGCAGCCAGCGCGCGG	1440
Qy	1439	CGCTTTGAGAGCACCCGTACGCGGCTCGCGTGGCCACAGAGGGCGGCCCGCTGCGCTTCC	1498
Db	1441	CGCTTTGAGAGCACCCGTACGCGGCTCGCGTGGCCACAGAGGGCGGCCCGCTGCGCTTCC	1500
Qy	1499	CGCCTCTCGGCTCACGCGCTTCCCTACCGCGTCCAGCCTGCTGGGCGAGAGTCCCAAGC	1558

1501	Db	CGCCTCTCGGCCTTACGCGCCCTCCCTTACCGCGTTCAGCCTGCTGGCGAGAGTCCAGGCC	1560
1559	Qy	TGCGGTGCGCGCCACGAGGAGCTCGTCTGTCGGCGAGGCGACGTGTGCCGTGTGCGGGG	1618
1561	Db	TGCGGTGCGCGCCACGAGGAGCTCGTCTGTCGGCGAGGCGACGTGTGCCGTGTGCGGGG	1620
1619	Qy	ACAACGCGCCTGCCAGCACTACGGCGTGGCAAACCTGCGAGGGCTCGAAGGGCTTTTTCA	1678
1621	Db	ACAACGCGCCTGCCAGCACTACGGCGTGGCAAACCTGCGAGGGCTCGAAGGGCTTTTTCA	1680
1679	Qy	AGAGACAGTGCAGAAAAATGCAAAATATGTTTGGCTTGGCAATATAAAACCTGCCAGTAG	1738
1681	Db	AGAGACAGTGCAGAAAAATGCAAAATATGTTTGGCTTGGCAATATAAAACCTGCCAGTAG	1740
1739	Qy	ACAAGAGCTGCAAAACCGATGTCAGTACTGTCGATTTTCAAGAGTGTCCTCAGTGTGCGAA	1798
1741	Db	ACAAGAGAGCTGCAAAACCGATGTCAGTACTGTCGATTTTCAAGAGTGTCCTCAGTGTGCGAA	1800
1799	Qy	TGGTAAAGAAAGTTGTCCGTACAGATAGTCTGAAAGGGAGGAGGTGCTCTGCCCTTCCA	1858
1801	Db	TGGTAAAGAAAGTTGTCCGTACAGATAGTCTGAAAGGGAGGAGGTGCTCTGCCCTTCCA	1860
1859	Qy	AACCAAAGGCCATTACAAACAGGAACCTTCTCAGCCCTCTCCACCTTCTCTCCCAATCT	1918
1861	Db	AACCAAAGGCCATTACAAACAGGAACCTTCTCAGCCCTCTCCACCTTCTCTCCCAATCT	1920
1919	Qy	GCATGATGAATGCCCTTGTCCGAGCTTTAACACACTCAACACCACAGAGATCTTGTATTAT	1978
1921	Db	GCATGATGAATGTCTTGTCCGAGCTTTAACACACTCAACACCACAGAGATCTTGTATTAT	1980
1979	Qy	CCAGATACTCTCCACTGACAGGCTGCTGCAGGCGACAGATGCTGAGCATGTGCAACAAT	2038
1981	Db	CCAGATACTCTCCACTGACAGGCTGCTGCAGGCGACAGATGCTGAGCATGTGCAACAAT	2040
2039	Qy	TCTACAACTCTTGAAGCCTCATTTGATGTATCCAGAACTGCGGCGAAGAAAGTTC	2098
2041	Db	TCTACAACTCTTGAAGCCTCATTTGATGTATCCAGAACTGCGGCGAAGAAAGTTC	2100
2099	Qy	GAATTTACTGATCTCCCAAAGAGATCAGACATTTACTTTTGAATCAGCCCTTTTGGAGC	2158
2101	Db	GAATTTACTGATCTCCCAAAGAGATCAGACATTTACTTTTGAATCAGCCCTTTTGGAGC	2160
2159	Qy	TGTTTGTCTCAGACATTTCCATCAGGTCAAACACTGCTGAAGATAAGTTGTGTCTGCA	2218
2161	Db	TGTTTGTCTCAGACATTTCCATCAGGTCAAACACTGCTGAAGATAAGTTGTGTCTGCA	2220
2219	Qy	ATGGACTTGTCTGCAATCGACTTTCAGTGCCTTCTGTGATTTGGGAGTGAGCTGACTTA	2278
2221	Db	ATGGACTTGTCTGCAATCGACTTTCAGTGCCTTCTGTGATTTGGGAGTGAGCTGACTTA	2280
2279	Qy	TTAAAGACTTTTCTTTAAATTTGCAGAGCCTGAACCTTGATATCCAAAGCCTTAGCCCTGCC	2338
2281	Db	TTAAAGACTTTTCTTTAAATTTGCAGAGCCTGAACCTTGATATCCAAAGCCTTAGCCCTGCC	2340
2339	Qy	TGTCAGCACTGAGCATGATCACAGAAAGACATGGGTTTAAAGAACCAAGAGAGTTCGAAG	2398
2341	Db	TGTCAGCACTGAGCATGATCACAGAAAGACATGGGTTTAAAGAACCAAGAGAGTTCGAAG	2400
2399	Qy	AGCTATGCAACAGATCACAAAGAGTTTAAAGACCAACAGAGTAAGGGAACAGGCTCTGG	2458
2401	Db	AGCTATGCAACAGATCACAAAGAGTTTAAAGACCAACAGAGTAAGGGAACAGGCTCTGG	2460
2459	Qy	AGCCCCAGAGTCCAAAGTCTCGGTGCCCTGTGTAGAACTGAGGAAGATCTGCAACCTGG	2518
2461	Db	AACCCAAAGAGTCCAAAGTCTCGGTGCCCTGTGTAGAACTGAGGAAGATCTGCAACCTGG	2520
2519	Qy	GCCTCCAGCGCATCTTCTACCTGAAGCTGGAAGACTTTGGTGTCTTCCACCTTCATATTG	2578
2521	Db	GCCTCCAGCGCATCTTCTACCTGAAGCTGGAAGACTTTGGTGTCTTCCACCTTCATATTG	2580
2579	Qy	ACAAGCTCTTCTTGGACACCGTACTTTCTAATCAGGAGCAGTGGAGCAGTGCCT	2638

Db 2581 ACAAGCTCTTCTCGGACACCCCTACCTTTCTAATCAGGACGCTGGAGCAGTGCCT 2640
Qy 2639 CCTCTCCTAGCACCTGCTGTCTACGCAAGAGGATAGTGTGGAAACCTATCATCTCC 2698
Db 2641 CCTCTCCTAGCACCTGCTTCTACGCAAGAGGATAGTGTGGAAACCTATCATCTCC 2700
Qy 2699 TGTCTCTCCTTAAGAGGAAAGCAGCTCCTGTAGAAAGCAAGACTTTCTTTTTTCTG 2758
Db 2701 TGTCTCTCCTTAAGAGGAAAGCAGCTCCTGTAGAAAGCAAGACTTTCTTTTTTCTG 2760
Qy 2759 GCTCTCTCTTCAACCTTAAGCAGCAAAAACCTCGACAGTATGTGTGGGGTGTGT 2818
Db 2761 GCTCTCTCTTCAACCTTAAGCAGCAAAAACCTCGACAGTATGTGTGGGGTGTGT 2820
Qy 2819 TTATATTTAGGATTTGGGGATGGGTGGAGGGGTTATAGTTTCATGAGGGTTTCTAA 2878
Db 2821 TTATATTTAGGATTTGGGGATGGGTGGAGGGGTTATAGTTTCATGAGGGTTTCTAA 2880
Qy 2879 GAAATGTCTAACAAAGCACTTTTGGCAATGCTATCCAGCAGGAAAAAAGGATAATA 2938
Db 2881 GAAATGTCTAACAAAGCACTTTTGGCAATGCTATCCAGCAGGAAAAAAGGATAATA 2940
Qy 2939 TAACGTGTTTAAACCTCTTCTGGGGAATCCAATTAAGTTAGTCTGTTGTTTAAACAA 2998
Db 2941 TAACGTGTTTAAACCTCTTCTGGGGAATCCAATTAAGTTAGTCTGTTTAAACAA 3000
Qy 2999 GAAACAGCAAGGTTTTCGCGAGGTAGGATGCTTTAAAGATTGTCCTTGAAAT 3058
Db 3001 GAAACAGCAAGGTTTTCGCGAGGTAGGATGCTTTAAAGATTGTCCTTGAAAT 3060
Qy 3059 ATGCTTCCTGATCAAGGTACGTATGTTGGTGCAACCAAGGAGCAAACTTCTTTTAAT 3118
Db 3061 ATGCTTCCTGATCAAGGTACGTATGTTGGTGCAACCAAGGAGCAAACTTCTTTTAAT 3120
Qy 3119 TCCTCTCTCTTATTTTAAACATGTTGAAGATGAGGATACCTACAATCAGCAT 3178
Db 3121 TCCTCTCTCTTATTTTAAACATGTTGAAGATGAGGATACCTACAATCAGCAT 3180
Qy 3179 GCGAAAAATAATGGCTGTTTGTCTTCCATAAACAAGTGCAATTTTTTAAAGTGTCT 3238
Db 3181 GCGAAAAATAATGGCTGTTTGTCTTCCATAAACAAGTGCAATTTTTTAAAGTGTCT 3240
Qy 3239 TACTAAGTCTGTTTATTAACCTCTCTTTATTTCTATATGGAATAAAGAGGAGCA 3298
Db 3241 TACTAAGTCTGTTTATTAACCTCTCTTTATTTCTATATGGAATAAAGAGGAGCA 3300
Qy 3299 TGTAGCAAAATGACAGTTAATATCCCTAGCAGAGCTGTGTTACCTTCCCTGTGATC 3358
Db 3301 TGTAGCAAAATGACAGTTAATATCCCTAGCAGAGCTGTGTTACCTTCCCTGTGATC 3360
Qy 3359 CCTCTGAGGTATGGCCCATCCAAGACTTTTATAGCCATTCTTGATGGAACAGATCCCTG 3418
Db 3361 CCTCTGAGGTATGGCCCATCCAAGACTTTTATAGCCATTCTTGATGGAACAGATCCCTG 3420
Qy 3419 CCCTGACTGCTCCAGCTATCCTGAAAGTGGATCAGATTATAAAGTGAATCATGTAATG 3478
Db 3421 CCCTGACTGCTCCAGCTATCCTGAAAGTGGATCAGATTATAAAGTGAATCATGTAATG 3480
Qy 3479 TTTTGGTGTGTTCTATCAACCCCAAGCTTCCCTAACTTGTGTTAGTTATAGTAAC 3538
Db 3481 TTTTGGTGTGTTCTATCAACCCCAAGCTTCCCTAACTTGTGTTAGTTATAGTAAC 3540
Qy 3539 TGACTGTGTATATTCATTGAGAGGCCCAATAGTTCAGTTGAGTATTTGATCCCTAGATAAG 3598
Db 3541 TGACTGTGTATATTCATTGAGAGGCCCAATAGTTCAGTTGAGTATTTGATCCCTAGATAAG 3600
Qy 3599 AACATGCAAAATCAGAGGAATGTTGATACAGGTTAAGCAACAGGGAACAATAAGGATTT 3658
Db 3601 AACATGCAAAATCAGAGGAATGTTGATACAGGTTAAGCAACAGGGAACAATAAGGATTT 3660
Qy 3659 TATAGATATAATTTAATTTTGTGTA--TTGTTAAGGAGA--CAATTTTGGAGCAAGCA 3715
Db 3661 TATAGATATAATTTAATTTTGTGTA--TTGTTAAGGAGACCAATTTTGGAGCAAGCA 3720

Qy 3716 AA---TCTTTTAAAAATAGTATGAATCTGAATCTAGAAAGATTTAAAAAATAGTAT 3772
Db 3721 AATCTTCTTTTAAAAAATAGTATGAATCTGAATCTAGAAAGATTTAAGAAATAGTAT 3780
Qy 3773 GAGTGTGAGTACTAGGAAGGAT 3794
Db 3781 GAGTGTGAGTACTAGGAAGGAT 3802

RESULT 4

US-10-414-080-1
; Sequence 1, Application US/10414080
; Publication No. US20030220288A1
; GENERAL INFORMATION:
; APPLICANT: MULLICAN, SHANNON E.
; APPLICANT: MILBRANDT, JEFFREY
; TITLE OF INVENTION: NOR-1 AND NUR77 NUCLEAR RECEPTORS AS TARGETS FOR
; FILE REFERENCE: P02454US1
; CURRENT APPLICATION NUMBER: US/10/414,080
; CURRENT FILING DATE: 2003-04-15
; PRIOR APPLICATION NUMBER: 60/373,238
; PRIOR FILING DATE: 2002-04-17
; NUMBER OF SEQ ID NOS: 36
; SOFTWARE: PatentIn Ver. 2.1
; SEQ ID NO 1
; LENGTH: 3802
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-414-080-1

Query Match 98.1%; Score 3722; DB 6; Length 3802;

Best Local Similarity 99.4%; Pred. No. 0;

Matches 3779; Conservative 0; Mismatches 15; Indels 8; Gaps 4;

Qy 1 ATAAATGACGTGCGGAGAGCGAGCGAAGCGCGAGCGCGGAGAGCGGAGTCTCTGCT 60
Db 1 ATAAATGACGTGCGGAGAGCGAGCGAAGCGCGAGCGCGGAGAGTCTCTGCT 60
Qy 61 CCGCGCCCGCCACCTCCAGCTCCTGCTCCTCCTCCGCTCCCATACACAGCGCTCA 120
Db 61 CCGCGCCCGCCACCTCCAGCTCCTGCTCCTCCTCCGCTCCCATACACAGCGCTCA 120
Qy 121 CACCGCTCCTCTACTCGCACACACAGCAAGCGGCGCACAGGCTCCG--CACAC 178
Db 121 CACCGCTCCTCTACTCGAACACACAGCAAGCGGCGCACAGGCTCCGCAACAC 180
Qy 179 ACTTCGCTCTCCGCGGCTCACACCCCTCTTGCCCTTGAGCCCTTGCGGTGAGCGCG 238
Db 181 ACTTCGCTCTCCGCGGCTCACACCCCTCTTGCCCTTGAGCCCTTGCGGTGAGCGCG 240
Qy 239 CGCGCAGCTGGAAGCGCCCTCCGCGGCTCACTTTGCAACGCTGACGCTGCGGCGAGTGC 298
Db 241 CGCGCAGCTGGAAGCGCCCTCCGCGGCTCACTTTGCAACGCTGACGCTGCGGCGAGTGC 300
Qy 299 CGTGAGGTGGGAACACGCGGCGGATCCTCCCTCCTGGTCAAGCCCAAGCAGGACGCC 358
Db 301 CGTGAGGTGGGAACACGCGGCGGATCCTCCCTCCTGGTCAAGCCCAAGCAGGACGCC 360
Qy 359 CGGGAACCTCTCGGCTGTCTCTCCATGAGTGGGATCGCAGCATCCCCCAGCG 418
Db 361 CGGGAACCTCTCGGCTGTCTCTCCATGAGTGGGATCGCAGCATCCCCCAGCG 420
Qy 419 CTCAACGCTCCGCGAGCGCTGGGCTTGTACACCGCAGCGCTTCCGGGACAGCAGTGT 478
Db 421 CTCAACGCTCCGCGAGCGCTGGGCTTGTACACCGCAGCGCTTCCGGGACAGCAGTGT 480
Qy 479 GACTCCCCCAGTGCAGATTTGGGACAGCTCTTAGAACTCGCTCTAAGACGGAAC 538
Db 481 GACTCCCCCAGTGCAGATTTGGGACAGCTCTTAGAACTCGCTCTAAGACGGAAC 540

Qy	539	CGCCACAGCACTCAAAGCCCACTGCGGAAGAGGCGACCCGGCAAGCCCGGGCCCTTGAGC	598
Db	541	CGCCACAGCACTCAAAGCCCACTGCGGAAGAGGCGACCCGGCAAGCCCGGGCCCTTGAGC	600
Qy	599	CTGGAACCTTTAGCGGTGCGGGGAGCACTGCGCGGCGCTTCGCCTCGCGGAGAGCTCGGCTC	658
Db	601	CTGGAACCTTTAGCGGTGCGGGGAGCACTGCGCGGCGCTTCGCCTCGCGGAGAGCTCGGCTC	660
Qy	659	CTCCTTACACTCTCAGCCTTCGCTCGAGAGACCCCGACGCCACCATTCAGCGCGCAAGAT	718
Db	661	CTCCTTACACTCTCAGCCTTCGCTCGAGAGACCCCGACGCCACCATTCAGCGCGCAAGAT	720
Qy	719	ACCTCTCAGATATGCTCCCTGCGTCCAAGCCCAATATAGCCCTTCCCTTCCAGGTTTCCAGTT	778
Db	721	ACCTCTCAGATATGCTCCCTGCGTCCAAGCCCAATATAGCCCTTCCCTTCCAGGTTTCCAGTT	780
Qy	779	ATGCGGGCGCAGACATACAGCTCGGANTACACCGAGATCATGAACCCCGACTACACCA	838
Db	781	ATGCGGGCGCAGACATACAGCTCGGANTACACCGAGATCATGAACCCCGACTACACCA	840
Qy	839	AGCTGACCATGAGCTTTGGGAGCACTCAGATCAGGCTACAGCCACCAACGTCCTCGGCCA	898
Db	841	AGCTGACCATGAGCTTTGGGAGCACTCAGATCAGGCTACAGCCACCAACGTCCTCGGCCA	900
Qy	899	GCATCAGTACTTCTGTCGAGGGCTACTCGAGCAACTACGAACCTTCCTCGGTGT	958
Db	901	GCATCAGTACTTCTGTCGAGGGCTACTCGAGCAACTACGAACCTTCCTCGGTGT	960
Qy	959	ACCAAAATGCAGCGGCTTGTATCAAAGTGAGGAGGGCGGGCGCCGAGTACCATCACC	1018
Db	961	ACCAAAATGCAGCGGCTTGTATCAAAGTGAGGAGGGCGGGCGCCGAGTACCATCACC	1020
Qy	1019	ATCACCAACCAACACCAACCAACCATCACACGAGCAGCAGCATCAGCAGCATCCCA	1078
Db	1021	ATCACCAACCAACCAACCAACCATCACACGAGCAGCAGCATCAGCAGCATCCCA	1080
Qy	1079	TTCTCTCAGCCTCCAGCCCGGAGACAGAGTGCTTGCCTCAGCACCTCCATGTACTTCAAGC	1138
Db	1081	TTCTCTCAGCCTCCAGCCCGGAGACAGAGTGCTTGCCTCAGCACCTCCATGTACTTCAAGC	1140
Qy	1139	AGTCCCAACGCTCACATCCCAACCAAGCCGGCTTTCCCTCCGAGGGCGGGCGTTATGGG	1198
Db	1141	AGTCCCAACGCTCACATCCCAACCAAGCCGGCTTTCCCTCCGAGGGCGGGCGTTATGGG	1200
Qy	1199	ACGAGGCACTGCGCTTCGCGCGCCCGGCTGCAATCGCACCCGGCCGCTGCGACCCGCCG	1258
Db	1201	ACGAGGCACTGCGCTTCGCGCGCCCGGCTGCAATCGCACCCGGCCGCTGCGACCCGCCG	1260
Qy	1259	TGAAGGGGGTCCCACGCTGGCGCGCGCTTTCGCGCTTTCGACTTCAAGCCCTTCGC	1318
Db	1261	TGAAGGGGGTCCCACGCTGGCGCGCGCTTTCGCGCTTTCGACTTCAAGCCCTTCGC	1320
Qy	1319	CGCGCATTCCTCCCGCGCCAGCCCGCGCGGCGCACCACTCGGCTACGACCCGACGG	1378
Db	1321	CGCGCATTCCTCCCGCGCCAGCCCGCGCGGCGCACCACTCGGCTACGACCCGACGG	1380
Qy	1379	CGGCTCGCGGCTCAGCTCGCTGGGAGCGCAGCGCGCGCGGCGAGCCAGCCCGCG	1438
Db	1381	CGGCTCGCGGCTCAGCTCGCTGGGAGCGCGAGCGCGCGGCGAGCCAGCCCGCGG	1440
Qy	1439	CGCTTGAGAGCACCCGCTACCGGGTTCGCGCTGGCGCAAGAGGGCGCGCCCGCTGCTTC	1498
Db	1441	CGCTTGAGGGCCACCGTACCGGCTGCGCTGGCCAGAGGGCGCGCCCGCTGCTTC	1500
Qy	1499	CGCTCTCGGCTCAGCGCTTCCCTTACCGGCTCAGCGCTGCTGGGCGAGATCCCAAGC	1558
Db	1501	CGCTCTCGGCTCAGCGCTTCCCTTACCGGCTCAGCGCTGCTGGGCGAGATCCCAAGC	1560
Qy	1559	TGCGCTCGCGCCCGCAGCAGGAGCTCGTGTCTGCGAGGGGACAGTGTGCGGTGTCGGG	1618
Db	1561	TGCGCTCGCGCCCGCAGCAGGAGCTCGTGTCTGCGAGGGGACAGTGTGCGGTGTCGGG	1620
Qy	1619	ACAAACCGCGCTGCGAGCACTACGCGCTGCGAACTCGCAGGGGCTGCAAGGGGCTTTTCA	1678

[illegible]

Db	2701	TGTCCTTCCTTAAAGAGAAAAGCAGCTCCTGTAGAAAGCAAGACTTCTTTTTTTCTG	2716
Qy	2759	GCTCTTTTCTTTACAACTAAAGCCAGAAAACTTCGACAGATATGTGTGGGGTGTGTT	2818
Db	2761	GCTCTTTTCTTTACAACTAAAGCCAGAAAACCTTCGACAGATATGTGTGGGGTGTGTT	2820
Qy	2819	TTATATTTAGGCATTTGGGGGATGGGTGGGAGGGGGTTATAGTTCATGAGGGTTTCTAA	2878
Db	2821	TTATATTTAGGCATTTGGGGGATGGGTGGGAGGGGGTTATAGTTCATGAGGGTTTCTAA	2880
Qy	2879	GAAATTTGCTAAACAAAGCACTTTTGGACAACTCTATCCACAGCAGAAAAAAGAGTAAATA	2938
Db	2881	GAAATTTGCTAAACAAAGCACTTTTGGACAACTCTATCCACAGCAGAAAAAAGAGTAAATA	2940
Qy	2939	TAACTGTTTTAAAACTCTTTCTGGGGAATCCAAATATATAGTTGCTTTGTATTTAAAAACAA	2998
Db	2941	TAACTGTTTTAAAACTCTTTCTGGGGAATCCAAATATATAGTTGCTTTGTATTTAAAAACAA	3000
Qy	2999	GAAAGCCCAAGGGTTTTCGCCAGGGTAGGATGTCTTTAAAGATTCGTCCCTTGGTAAAAAT	3058
Db	3001	GAAAGCCCAAGGGTTTTCGCCAGGGTAGGATGTCTTTAAAGATTCGTCCCTTGGTAAAAAT	3060
Qy	3059	ATGCTTCTCTGTATCAAAAGGTACGTATGTGGTGCAACCAAGCCAGAAACTTCCCTTTAAAT	3118
Db	3061	ATGCTTCTCTGTATCAAAAGGTACGTATGTGGTGCAACCAAGCCAGAAACTTCCCTTTAAAT	3120
Qy	3119	TCCTTCTTCTTTATTTTAAACAAATGGTGAAGATGGAGGATTAACCTACAAATCAGACAT	3178
Db	3121	TCCTTCTTCTTTATTTTAAACAAATGGTGAAGATGGAGGATTAACCTACAAATCAGACAT	3180
Qy	3179	GGCAAAAACAATAATGGCTGTTTGTTCATAAACAAGTGCAAATTTTTTAAAGTCTGTCT	3238
Db	3181	GGCAAAAACAATAATGGCTGTTTGTTCATAAACAAGTGCAAATTTTTTAAAGTCTGTCT	3240
Qy	3239	TACTAAGTCTGTGTTTATTAACCTCTCTTTATTTCTATATGGAATAAAGAGGAGCAGTCA	3298
Db	3241	TACTAAGTCTGTGTTTATTAACCTCTCTTTATTTCTATATGGAATAAAGAGGAGCAGTCA	3300
Qy	3299	TGTTAGCAAAATGACACGTTAATATCCCTAGCAGAGGCTGTGTTTCCACCTTCCCTGTGATC	3358
Db	3301	TGTTAGCAAAATGACACGTTAATATCCCTAGCAGAGGCTGTGTTTCCACCTTCCCTGTGATC	3360
Qy	3359	CCTTCTGAGGTATGGCCCATCCAAGACTTTTAGGCCAATCTTGAAGCAACAGATCCCTG	3418
Db	3361	CCTTCTGAGGTATGGCCCATCCAAGACTTTTAGGCCAATCTTGAAGCAACAGATCCCTG	3420
Qy	3419	CCCTGACTGTCCAGCTATCCCTGAAAGTGGATCAGATTATAACTGGATACATGTAACCTG	3478
Db	3421	CCCTGACTGTCCAGCTATCCCTGAAAGTGGATCAGATTATAAACTGGATACATGTAACCTG	3480
Qy	3479	TTTTGGTTGTGTTCTATCAACCCCAACAGAGTTCCTTAAACTTGTCTTCAGTTATAGTAAC	3538
Db	3481	TTTTGGTTGTGTTCTATCAACCCCAACAGAGTTCCTTAAACTTGTCTTCAGTTATAGTAAC	3540
Qy	3539	TGACTGTGATATTCATTCAGAAGCGCCATAAGTCAGTTGAGTATTTGATCCCTAGATAAG	3598
Db	3541	TGACTGTGATATTCATTCAGAAGCGCCATAAGTCAGTTGAGTATTTGATCCCTAGATAAG	3600
Qy	3599	AACATGCAAAATCAGCAGAACTGGTCATACAGGGTAAGCACAGGGGACAATAAGGATTTT	3658
Db	3601	AACATGCAAAATCAGCAGAACTGGTCATACAGGGTAAGCACAGGGGACAATAAGGATTTT	3660
Qy	3659	TATAGATATAATTTAAATTTTTTGTTA--TTGCTTAAAGGAGA--CAATTTGGAGAGCAGCA	3715
Db	3661	TATAGATATAATTTAAATTTTTTGTTAATGGTTTAAGGAGACCAATTTTGGAGAGCAGCA	3720
Qy	3716	AA---TCCTTTTTAAAAAATAGTATGATGTGAATCTAGAAAAAGATTTAAAAAATAGTAT	3772
Db	3721	AACTCTCTTTTTAAAAAATAGTATGATGTGAATCTAGAAAAAGATTTAAAAAATAGTAT	3780
Qy	3773	GAGTGTGAGTACTAGGAAGGAT	3794
Db	3781	GAGTGTGAGTACTAGGAAGGAT	3802

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361 CGCGGAACTCTCGGTGTCCTCTCCATGAGTCGGGATCGGAGATCCCCACACGCGG 420
QY
419 CTCA CGGCTCCGGGAGCGCTGGGCTTGTAACA CGCAGCCCTTCGGGAGCAGCAGCTGT 478
Db
421 CTACCGGCTCCGGGAGCGCTGGGCTTGTAACACGCGAGCCCTTCGGGAGCAGCAGCTGT 480
QY
479 GACTCCCCCAGTGCAGATTTTCGGGACAGCTCTCTAGNAATCTGCTCTAAAGACGGAA 538
Db
481 GACTCCCCCAGTGCAGATTTTCGGGACAGCTCTCTAGAAATCTGCTCTAAAGACGGAA 540
QY
539 CGCCACAGCACTCAAAAGCCCACTGCGGAAGAGGGCAGCCCGCAAGCCGGGCCCTTGAGC 598
Db
541 CGCGACAGCACTCAAAAGCCCACTGCGGAAGAGGGCAGCCCGCAAGCCGGGCCCTTGAGC 600
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Db
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Db
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QY
719 ACCCTCCAGATATGCCCTCGCTCCAAGCCCAATATAGCCCTTCGCCCTCCAGGTTCCAGTT 778
Db
721 ACCCTCCAGATATGCCCTCGCTCCAAGCCCAATATAGCCCTTCGCCCTCCAGGTTCCAGTT 780
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779 ATGCGGCGCAGACATACAGCTCGGAATACACACGGAGATCATGAACCCCGCATCACCA 838
Db
781 ATGCGGCGCAGACATACAGCTCGGAATACACACGGAGATCATGAACCCCGCATCACCA 840
QY
839 AGCTGACCAATGACCTTGGCAGCACTGAGATCAGCGCTACAGCCACGAGTCCCTGGCCA 898
Db
841 AGCTGACCAATGACCTTGGCAGCACTGAGATCAGCGCTACAGCCACGAGTCCCTGGCCA 900
QY
899 GCATCAGTACCTTCGTGGAGGCTACTCGAGCAACTACGAACTCAAGCCTTCCTCGCTGT 958
Db
901 GCATCAGTACCTTCGTGGAGGCTACTCGAGCAACTACGAACTCAAGCCTTCCTCGCTGT 960
QY
959 ACCAAATGACGGGCCCTTGATCAAAAGTGGAGGAGGGCGGCGCCAGCTACCATCAC 1018
Db
961 ACCAAATGACGGGCCCTTGATCAAAAGTGGAGGAGGGCGGCGCCAGCTACCATCAC 1020
QY
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Db
1021 ATCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAAC 1080
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1141 AGTCCCAACCGTCAACCCCAACAGCCGCGCTTCCCGCCGAGCGGGGGCGTTATGGG 1200
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Db
1201 ACGAGCACTGCGCTCGGCGCGCGGTGCATCGCACCCGCGCGCTGTGGAACCCGCGGA 1260
QY
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Db
1261 TGAAGCGGTCCCAACCGTGGCGCGCGCTTCCTCGCTCTTCCACTTTCAAGCCCTGCG 1320
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1321 CGCGCATCCCCCGCCAGCCCGCGCGCGCGCCAGCAACCTCGGCTACGACCCGAGCG 1380
QY
1379 CGGCTCGCGCTCAGCTCGGCTGGAGCGCGAGCCCGCGCGCGCGCGCGCGCGCGCG 1438
Db
1381 CGGCTCGCGCTCAGCTCGGCTGGAGCGCGAGCCCGCGCGCGCGCGCGCGCGCGCG 1440
QY
1439 CGCTTGAGAGCCACCCGCTACGGGCTCGCGCTGGCCAAAGAGGGCGGCCCGCTGGGCTTCC 1498
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Db
1441 CGCTTGAGGGCCACCCTGACGGGCTCGCGCTGGCCAAAGAGGGCGGCCCGCTGCGCTTCC 1500
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1499 CGCTCTCGGCTCA CGGCTTCCCTACCGGCTCAGGCTCGCTGGGCGAGAGTCCCGAGCC 1558
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QY
1559 TGCGCTCGCGCCAGCAGAGGAGCTCGCTCTGCGGAGGGCACGCTGCGCTGTGCGGG 1618
Db
1561 TGCGCTCGCGCCAGCAGAGGAGCTCGCTCTGCGGAGGGCACGCTGTGCGCTGTGCGGG 1620
QY
1619 ACAA CGCGCTGCGCAGCACTACCGGCTGCCAACTCGCGAGGGCTGCAAGGGCTTTTTCA 1678
Db
1621 ACAA CGCGCTGCGCAGCACTACCGGCTGCCAACTCGCGAGGGCTGCAAGGGCTTTTTCA 1680
QY
1679 AGAGAA CAGTGCAGAAAAATGCAAAAATATGTTTGCCTGGGCAAAATAAAACTGCCAGTAG 1738
Db
1681 AGAGAA CAGTGCAGAAAAATGCAAAAATATGTTTGCCTGGGCAAAATAAAACTGCCAGTAG 1740
QY
1739 ACAAGAGAGCTCGAAACCGATGTCAGTACTGTCGATTTCAAGGTGTCCTCAGTGTGGAA 1798
Db
1741 ACAAGAGAGCTCGAAACCGATGTCAGTACTGTCGATTTCAAGGTGTCCTCAGTGTGGAA 1800
QY
1799 TGGTAAAGAGAGTTGTCGTA CAGATAGTCTGAAAGGAGGAGAGGTCGCTGCGCTTCCA 1858
Db
1801 TGGTAAAGAGAGTTGTCGTA CAGATAGTCTGAAAGGAGGAGAGGTCGCTGCGCTTCCA 1860
QY
1859 AACCAAGAGAGCCATTA CACAGGAACTTCTCAGGCTTCCAACCTTCTCCTCAATCT 1918
Db
1861 AACCAAGAGAGCCATTA CACAGGAACTTCTCAGGCTTCCAACCTTCTCCTCAATCT 1920
QY
1919 GCATGATGAATGCCCTTGTCCGAGCTTTAACAGACTCAACACCCAGAGATCTTGATTA 1978
Db
1921 GCATGATGAATGCCCTTGTCCGAGCTTTAA CAGACTCAACACCCAGAGATCTTGATTA 1980
QY
1979 CCAGATACTGTCCCACTGAC CAGGCTGCTGAGGCA CAGATGCTGAGCATGTGCAACAAT 2038
Db
1981 CCAGATACTGTCCCACTGAC CAGGCTGCTGAGGCA CAGATGCTGAGCATGTGCAACAAT 2040
QY
2039 TCTCAACCTCTCTGA CAGCCTTCCATTTGATGTAT CAGAGCTGGGCGAGAAAAGATTCGG 2098
Db
2041 TCTCAACCTCTCTGA CAGCCTTCCATTTGATGTAT CAGAGCTGGGCGAGAAAAGATTCGG 2100
QY
2099 GATTTACTGATCTCCCAAGAGAT CAGACATTA TTTTGAATCAGCCTTTTGGAGC 2158
Db
2101 GATTTACTGATCTCCCAAGAGAT CAGACATTA TTTTGAATCAGCCTTTTGGAGC 2160
QY
2159 TGTGTGCTCAGACTTTTCCA TCAAGGTCAAA CACTGCTGAAAGATAAGTTGTGTTCTGCA 2218
Db
2161 TGTGTGCTCAGACTTTTCCA TCAAGGTCAAA CACTGCTGAAAGATAAGTTGTGTTCTGCA 2220
QY
2219 ATGGA CTGTGCTGATCGACTTCAGTGCCTT CGTGGATTTGGGAGTGGCTCGACTCTA 2278
Db
2221 ATGGA CTGTGCTGATCGACTTCAGTGCCTT CGTGGATTTGGGAGTGGCTCGACTCTA 2280
QY
2279 TTAAGACTTTTCTTAAATTTG CAGAGCCTGAA CTTTGATATCCAAGCTTTAGCCTGCG 2338
Db
2281 TTAAGACTTTTCTTAAATTTG CAGAGCCTGAA CTTTGATATCCAAGCTTTAGCCTGCG 2340
QY
2339 TGT CAGCACTGAGCATGATCA CAGAAAGACATGGGTTAAAAAGAA CCAAGAGAGTCAAG 2398
Db
2341 TGT CAGCACTGAGCATGATCA CAGAAAGACATGGGTTAAAAAGAA CCAAGAGAGTCAAG 2400
QY
2399 AGCTATGCAACAGATCAACAGCTTTTAAAGACCA CAGAGTAAGGAGCAGGCTCTGG 2458
Db
2401 AGCTATGCAACAGATCAACAGCTTTTAAAGACCA CAGAGTAAGGAGCAGGCTCTGG 2460
QY
2459 AGCCACCGAGTCCAAGTCTCGGTGCTGTAGAACTCAGGAAGATCTGCACCTCTGG 2518
Db
2461 AACCCACAGTCCAGGTCCTGTTGCCCTTGTAAGAACTGAGGAGATCTGCACCTCTGG 2520
QY
2519 GCCTCCAGCGCATCTTCTA CCGTAAGCTGGAAGACTTGGTGTCTCCA CTTTCCATCATTTG 2578
Db
2521 GCCTCCAGCGCATCTTCTA CCGTAAGCTGGAAGACTTGGTGTCTCCA CTTTCCATCATTTG 2580

QY	2579	ACAAGCTCTTCTCGTGACACCCCTA	CTTTTCTTAATCAGGAGCAGTGGACGAGTGCCT	2638
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QY	2581	ACAAGCTCTTCTCGTGACACCCCTA	CTTTTCTTAATCAGGAGCAGTGGACGAGTGCCT	2640
Db				
QY	2639	CCTCTCTAGCACCTGCTTGCTACGCAGCAAAAGGATAGGT	TTTGGAAACCTATCATTTCC	2698
Db				
QY	2641	CCTCTCTAGCACCTGCTTGCTACGCAGCAAAAGGATAGGT	TTTGGAAACCTATCATTTCC	2700
Db				
QY	2699	TGTCCTTCTTTAAGAGGAAAGCAGCTCTCGTAGAAAGCAAGACTTTCTTTTTCG	2758	
Db				
QY	2701	TGTCCTTCTTTAAGAGGAAAGCAGCTCTCGTAGAAAGCAAGACTTTCTTTTTCG	2760	
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QY	2759	GCTCTTTTTCCTTACAACCTAAAGCCAGAAACTTGCAGAGTATGTGCTTGGGGTGTGTT	2818	
Db				
QY	2761	GCTCTTTTTCCTTACAACCTAAAGCCAGAAACTTGCAGAGTATGTGCTTGGGGTGTGTT	2820	
Db				
QY	2819	TTATATTATAGGCATTGGGGGATGGGGTGGGAGGGGGTTATAGTTTCATGAGGGTTTTCTAA	2878	
Db				
QY	2821	TTATATTATAGGCATTGGGGGATGGGGTGGGAGGGGGTTATAGTTTCATGAGGGTTTTCTAA	2880	
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QY	2879	GAATTTGCTTAACAAAGCAGCTTTTGGACAATGCTATCCACAGAGGAAAAAAGGATAATA	2938	
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QY	2881	GAATTTGCTTAACAAAGCAGCTTTTGGACAATGCTATCCACAGAGGAAAAAAGGATAATA	2940	
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QY	2939	TAACTGTTTTTAAAACTCTTTCTGGGGAAATCCAAATTATAGTTGCTTTGATTTTAAAAACAA	2998	
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QY	2941	TAACTGTTTTTAAAACTCTTTCTGGGGAAATCCAAATTATAGTTGCTTTGATTTTAAAAACAA	3000	
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QY	2999	GAACAGCCAAAGGGTGTTCGCAGGGTAGGATGTGCTTAAAGATTGGTCCCTTTGAAAAAT	3058	
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QY	3001	GAACAGCCAAAGGGTGTTCGCAGGGTAGGATGTGCTTAAAGATTGGTCCCTTTGAAAAAT	3060	
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QY	3059	ATGCTTCTGTATCAAAGGTACGTATGTGGTGCAACAAGGCGAGAACTTCCTTTTAAAT	3118	
Db				
QY	3061	ATGCTTCTGTATCAAAGGTACGTATGTGGTGCAACAAGGCGAGAACTTCCTTTTAAAT	3120	
Db				
QY	3119	TCCTTCTTCTTTATTTTAAACAATGCTGAAGATGGAGGATTAACCTACAAATCAGACAT	3178	
Db				
QY	3121	TCCTTCTTCTTTATTTTAAACAATGCTGAAGATGGAGGATTAACCTACAAATCAGACAT	3180	
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QY	3179	GGCAAAAACAATAATGGCTGTTGCTTCCATAAACAAGTGCAATTTTTTAAAGTGTGTCT	3238	
Db				
QY	3181	GGCAAAAACAATAATGGCTGTTGCTTCCATAAACAAGTGCAATTTTTTAAAGTGTGTCT	3240	
Db				
QY	3239	TACTAAGTCTGTGTTTATTAATCTCTCTTTATTTCTATATGGAATAAAGAGGCGAGTCA	3298	
Db				
QY	3241	TACTAAGTCTGTGTTTATTAATCTCTCTTTATTTCTATATGGAATAAAGAGGCGAGTCA	3300	
Db				
QY	3299	TGTTAGCAAAATGACACGTAAATATCCCTAGCAGAGCTGTGTTTCACTTCCCTGTCGATC	3358	
Db				
QY	3301	TGTTAGCAAAATGACACGTAAATATCCCTAGCAGAGCTGTGTTTCACTTCCCTGTCGATC	3360	
Db				
QY	3359	CCCTTCTCAGGTATGGCCCATCCAAGACTTTTATGGCCATTTTGGATGGAACCGAGATCCCTG	3418	
Db				
QY	3361	CCCTTCTCAGGTATGGCCCATCCAAGACTTTTATGGCCATTTTGGATGGAACCGAGATCCCTG	3420	
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QY	3419	CCCTGACGTCTCAGCTATCTCTGAAGTGGATCAGATTAATAACTGGAATTCATGTAATG	3478	
Db				
QY	3421	CCCTGACGTCTCAGCTATCTCTGAAGTGGATCAGATTAATAACTGGAATTCATGTAATG	3480	
Db				
QY	3479	TTTTGGTTGTGTTCTATCAACCCCAACAGAGTTCCCTTAAACTTGTTCAGTTATATGTAAC	3538	
Db				
QY	3481	TTTTGGTTGTGTTCTATCAACCCCAACAGAGTTCCCTTAAACTTGTTCAGTTATATGTAAC	3540	
Db				
QY	3539	TGACTGTGTAATTTCAATTCAGAAAGCCCATTAAGTCAGTTGAGTATTTGATCCCTTAGATAAG	3598	
Db				
QY	3541	TGACTGTGTAATTTCAATTCAGAAAGCCCATTAAGTCAGTTGAGTATTTGATCCCTTAGATAAG	3600	
Db				
QY	3599	AACATGCAATCAGCAGGAACTGGTCATACAGGGTAAGCAACGAGGACAATTAAGGATTTT	3658	
Db				
QY	3601	AACATGCAATCAGCAGGAACTGGTCATACAGGGTAAGCAACGAGGACAATTAAGGATTTT	3660	
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Qy	3659	TATAGATATATAATTTAAATTTTTTGTTA--TTGGTTAAGGAGA-CAATTTTGGAGGCAAGCA	3716
Db	3661	TATAGATATATAATTTAAATTTTTTGGTTAATTTGGTTAAGGAGACCAATTTTGGAGGCAAGCA	3720
Qy	3716	AA---TCTTTTTAAAAAATAGTAGAATGTAATCTAGAAAAAGATTTAAAAAATAGTAT	3772
Db	3721	AATCTTCTTTTTTAAAAAATAGTAGAATGTAATCTAGAAAAAGATTTAAAAAATAGTAT	3780
Qy	3773	GAGTGTGAGTACTAGGAAGGAT	3794
Db	3781	GAGTGTGAGTACTAGGAAGGAT	3802
RESULT 6			
US-10-247-671-105			
; Sequence 105, Application US/10247671			
; Publication No. US20030194721A1			
; GENERAL INFORMATION:			
; APPLICANT: Mikita, Thomas			
; APPLICANT: Shiffman, Dov			
; APPLICANT: Porter, Gordon, J.			
; APPLICANT: Kaser, Matthew R.			
; TITLE OF INVENTION: GENES EXPRESSED IN TREATED FOAM CELLS			
; FILE REFERENCE: PA-0050 US			
; CURRENT APPLICATION NUMBER: US/10/247,671			
; CURRENT FILING DATE: 2002-09-18			
; PRIOR APPLICATION NUMBER: 60/323,784			
; PRIOR FILING DATE: 2001-09-19			
; NUMBER OF SEQ ID NOS: 186			
; SOFTWARE: PERL Program			
; SEQ ID NO 105			
; LENGTH: 5828			
; TYPE: DNA			
; ORGANISM: Homo sapiens			
; FEATURE:			
; NAME/KEY: misc_feature			
; OTHER INFORMATION: lncyte ID No. US20030194721A1 349343.3			
; FEATURE:			
; NAME/KEY: unsure			
; LOCATION: 1012-1074, 4044-4074, 5807			
; OTHER INFORMATION: a, t, c, g, or other			
US-10-247-671-105			
Query Match 97.0%; Score 3679.2; DB 6; Length 5828;			
Best Local Similarity 98.1%; Pred. No. 0;			
Matches 3728; Conservative 0; Mismatches 66; Indels 7; Gaps 4;			
Qy	1	ATAAATGACGTGCGGAGAGGCGAGGAAACGGCGACCGCGGAGAGCGGAGTCTCTGCGCT	60
Db	1	ATAAATGACGTGCGGAGAGGCGAGGAAACGGCGACCGCGGAGAGCGGAGTCTCTGCGCT	60
Qy	61	CCGCGCCCCCACCCTCCAGCTCTCTCTCTCTCGCTCCCATACAGACGGGCTCA	120
Db	61	CCGCGCCCCCACCCTCCAGCTCTCTCTCTCTCGCTCCCATACAGACGGGCTCA	120
Qy	121	CACCCGCTCCCTCACTCGACACACAGACAAGCGCGCACACAGGCTCCG--CACACAC	178
Db	121	CACCCGCTCCCTCACTCGACACACAGACAAGCGCGCACACAGGCTCCGACACACAC	180
Qy	179	ACTTCGCTCTCCCGCGGCTCAACCCCTCTTGCCCTGAGCCCTTGCCGGTGAGCGCG	238
Db	181	ACTTCGCTCTCCCGCGGCTCAACCCCTCTTGCCCTGAGCCCTTGCCGGTGAGCGCG	240
Qy	239	CGCGCGAGCTGGACGCCCTCCCGGGCTCACTTTCGACGCTGACGGTCCCGGCAATGCG	298
Db	241	CGCGCGAGCTGGACGCCCTCCCGGGCTCACTTTCGACGCTGACGGTCCCGGCAATGCG	300
Qy	299	CGTGGAGGTGGGAACAGCGCGCGGCTCTCTCCCTCTGGTCAAGCCCAAGCCAGGACGCC	358
Db	301	CGTGGAGGTGGGAACAGCGCGCGGCTCTCTCCCTCTGGTCAAGCCCAAGCCAGGACGCC	360
Qy	359	CGCGGAACCTCTCGGCTGTGCTCTCCCATGATCGGGATCGCAGCATCCCCACCGCG	418

Db 361 CGCGAACCCTCTCGGTGTGCTCTCCCATGAGTCGGATCGCAGCATCCCCACAGCG 420
QY 419 CTCA CGGCTCCGGAGCGCGTGGGTGTGTACACCGAGCCCTTCGGGACAGCAGCTGT 478
Db 421 CTCACGGCTCCGGAGCGCGTGGGTGTGTACACCGAGCCCTTCGGGACAGCAGCTGT 480
QY 479 GACTCCCCCAGTCAGATTTCCGGACAGCTCTCTAGAACTCGCTCTAAAGCGGAAC 538
Db 481 GACTCCCCCAGTCAGATTTCCGGACAGCTCTCTAGAACTCGCTCTAAAGCGGAAC 540
QY 539 CGCCACAGCACTCAAGGCCCACTGCGGAAGAGGGCAGCCCGGAGCCCGGCCCTGAGC 598
Db 541 CGCCACAGCACTCAAGGCCCACTGCGGAAGAGGGCAGCCCGGAGCCCGGCCCTGAGC 600
QY 599 CTGGACCTTAGCGGTGCGGGCAGACATGCGCGGCGCTTTCGCTCGCGGAGCTCCGCTC 658
Db 601 CTGGACCTTAGCGGTGCGGGCAGACATGCGCGGCGCTTTCGCTCGCGGAGCTCCGCTC 660
QY 659 CTCCTACACTCTCAGCCTCCGCTGGAGAGACCCCGAGCCCACTTCAAGCGGCAAGAT 718
Db 661 CTCCTACACTCTCAGCCTCCGCTGGAGAGACCCCGAGCCCACTTCAAGCGGCAAGAT 720
QY 719 ACCCTCCAGATATGCCCTGCGTCCAAGCCCAATATAGCCCTTCCCTCCAGGTTCCAGTT 778
Db 721 ACCCTCCAGATATGCCCTGCGTCCAAGCCCAATATAGCCCTTCCCTCCAGGTTCCAGTT 780
QY 779 ATGCGGCGAGACATACAGCTCGGAATACACACCGAGATCATGAACCCCGACTACACA 838
Db 781 ATGCGGCGAGACATACAGCTCGGAATACACACCGAGATCATGAACCCCGACTACACA 840
QY 839 AGCTGACCATGACCTTGGCAGCACTGAGATCAAGCTACAGCCACCAAGTCCCTGCCCA 898
Db 841 AGCTGACCATGACCTTGGCAGCACTGAGATCAAGCTACAGCCACCAAGTCCCTGCCCA 900
QY 899 GCATCAGTACCTTCGTGGAGGGCTACTCGAGCAACTACGAACTCAAGCCTTCTCGGTGT 958
Db 901 GCATCAGTACCTTCGTGGAGGGCTACTCGAGCAACTACGAACTCAAGCCTTCTCGGTGT 960
QY 959 ACCAAATGAGCGGCTTGTATCAAGTGGAGAGGGCGGGCGGCGGCGGCTTCAACATCAC 1018
Db 961 ACCAAATGAGCGGCTTGTATCAAGTGGAGAGGGCGGGCGGCGGCGGCTTCAACATCAC 1020
QY 1019 ATCACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 1078
Db 1021 NNN 1080
QY 1079 TTCTCTCAGCTCCAGCCCGAGGACGAGGTGCTGCCAGACACCTCCATGTACTTCAAGC 1138
Db 1081 TTCTCTCAGCTCCAGCCCGAGGACGAGGTGCTGCCAGACACCTCCATGTACTTCAAGC 1140
QY 1139 AGTCCCGACCGTCCAGCCCGACAGCGCGGCTTCCCGCGAGGGGGGGGGTATGGG 1198
Db 1141 AGTCCCGACCGTCCAGCCCGACAGCGCGGCTTCCCGCGAGGGGGGGGGTATGGG 1200
QY 1199 ACGAGCACTGCTCGGCGCGGCTGCATCGCACCGGCGGCTGCTGGACCCCGCGA 1258
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QY 1259 TGAAGCGGTCCCGCAGCGTGGCGGCGGCTTCCCGCTTTCACCTTCAAGCCCTCGC 1318
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Db 1321 CGCGCATCCCGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGGCGG 1380
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Db 1381 CGCTGCGCGCTCAGCTGCGCTGGAGCGCAGCGCGCGCGCGCGCGCGCGCGCGCGCG 1440
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Db 1441 CGCTTGAGAGCCACCGGTACGGGCTGCCGTGGCCAAAGAGGGCGGCGGCGGCGGCTTCC 1500

QY 1499 GCGCTCTGGGCTCA CGCCCTCCCTACCGGCTCCAGCTGCTGGCGAGAGTCCCGGCC 1558
Db 1501 GCGCTCTGGGCTCA CGCCCTCCCTACCGGCTCCAGCTGCTGGCGAGAGTCCCGGCC 1560
QY 1559 TGCGGTGCGCGCCAGCAGGAG - CTCGTGCTGCGCGAGGACAGTGTGCGGTGCGGG 1617
Db 1561 TGCGGTGCGCGCCAGCAGGAGTCTCGTCTGCGGAGGCAAGTGTGCGGTGCGGG 1620
QY 1618 GACAAACGCG - CTGCGCAGCACTACGCGGTGCGAACTTCGCGAGGCTGCAAGGGCTTTTT 1676
Db 1621 GACAAACGCGCACTGCGCAGCACTACGCGGTGCGAACTTCGCGAGGCTGCAAGGGCTTTTT 1680
QY 1677 CAAGAGACAGTGCAGAAATAATGCAAAATATGTTTGGCTGCAAAATAAAATCGCCAGT 1736
Db 1681 CAAGAGACAGTGCAGAAATAATGCAAAATATGTTTGGCTGCAAAATAAAATCGCCAGT 1740
QY 1737 AGACAAGAGAGCTGCAAAACCGATGTCAGTACTGTCGATTTTCAGAAAGTGTCTCAGTGTGG 1796
Db 1741 AGACAAGAGAGCTGCAAAACCGATGTCAGTACTGTCGATTTTCAGAAAGTGTCTCAGTGTGG 1800
QY 1797 AATGTTAAAGAGTGTGTCGATACAGATAGTCTGAAAGGGAGGAGGTCTGTCGCTTC 1856
Db 1801 AATGTTAAAGAGTGTGTCGATACAGATAGTCTGAAAGGGAGGAGGTCTGTCGCTTC 1860
QY 1857 CAACCAAGAGCCCATTAACAAGGACCTTCTCAGCCCTCTCCACCTTCTCCTCCAAAT 1916
Db 1861 CAACCAAGAGCCCATTAACAAGGACCTTCTCAGCCCTCTCCACCTTCTCCTCCAAAT 1920
QY 1917 CTGATGATGATGATGTCGAGCTTTAAACAGACTCAACACCCAGAGATCTTTGATTA 1976
Db 1921 CTGATGATGATGATGTCGAGCTTTAAACAGACTTTAAACAGACTCAACACCCAGAGATCTTTGATTA 1980
QY 1977 TTCAGATACCTGTCCTGACAGGCTGTCGAGGCAAGATGTCGAGCATGTGTCGCAACA 2036
Db 1981 TTCAGATACCTGTCCTGACAGGCTGTCGAGGCAAGATGTCGAGCATGTGTCGCAACA 2040
QY 2037 ATTCTACAACTCTGACAGGCTCCATTTGATGATTCAGAGCTGGGCGAGAAAGATTTCC 2096
Db 2041 ATTCTACAACTCTGACAGGCTCCATTTGATGATTCAGAGCTGGGCGAGAAAGATTTCC 2100
QY 2097 GGGATTTACTGATCTCCCCAAAGAGATCAGACATTAATTTGAATCAGGCTTTTGGGA 2156
Db 2101 GGGATTTACTGATCTCCCAAGAGATCAGACATTAATTTGAATCAGGCTTTTGGGA 2160
QY 2157 GCTGTTGTCCTCAGACTTTCCATCAGGTCAAACTGCTGTAAGATGTTGTTCTG 2216
Db 2161 GCTGTTGTCCTCAGACTTTCCATCAGGTCAAACTGCTGTAAGATGTTGTTCTG 2220
QY 2217 CAATGGACTTCTGTCGATCGACTTTCAGTGTCTGTCGATTTGGGGAGTGTCTCGACTC 2276
Db 2221 CAATGGACTTCTGTCGATCGACTTTCAGTGTCTGTCGATTTGGGGAGTGTCTCGACTC 2280
QY 2277 TATTAAAGACTTTTCTTTAAATTTGACAGGCTGAACTTCGATATCCAAAGCTTTAGCCTG 2336
Db 2281 TATTAAAGACTTTTCTTTAAATTTGACAGGCTGAACTTCGATATCCAAAGCTTTAGCCTG 2340
QY 2337 CTTGTCAGCACTGAGCATGATCAGAAAGCACTGGGTTTAAAGAACCAAGAGAGTGA 2396
Db 2341 CTTGTCAGCACTGAGCATGATCAGAAAGCACTGGGTTTAAAGAACCAAGAGAGTGA 2400
QY 2397 AGAGCTATGCAACAGATCACAAGCAGTTTAAAGACCCAGAGTAAAGGACAGGCTCT 2456
Db 2401 AGAGCTATGCAACAGATCACAAGCAGTTTAAAGACCCAGAGTAAAGGACAGGCTCT 2460
QY 2457 GGAGCCCAAGGCTCAAGGTCTTGGGTGCTGTTAGAACTGAGGAAAGATCTGACCTC 2516
Db 2461 GGAGCCCAAGGCTCAAGGTCTTGGGTGCTGTTAGAACTGAGGAAAGATCTGACCTC 2520
QY 2517 GGGCTTCAGGCGATCTTTCTACCTGGAAGCTGGAAGCTTGGTGTCTCCACCTTCCATCAT 2576
Db 2521 GGGCTTCAGGCGATCTTTCTACCTGGAAGCTTGGTGTCTCCACCTTCCATCAT 2580

Db 2581 TTGACAGCTCTTCTCTGGACACCCCTACCTTTCTTAATCAGGAGCAGTGGAGCAGTGAGCTG 2640
Qy 2636 CCTCTCTCTAGCACCTGCTTGTACGACGAAAGGGATAGTGTGGAACTATCATTT 2695
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Qy 2696 TCCTGTCTCTCTTAAGAGGAAAGCAGCTCTCTGTAGAAGCAAAAGACTTTCTTTTTTTT 2755
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Qy 2756 CTGGCTCTCTCTTAACACCTAAAGCCGAAACCTTGCAGAGTATTTGTGGGGTGT 2815
Db 2761 CTGGCTCTCTCTTAACACCTAAAGCCGAAACCTTGCAGAGTATTTGTGGGGTGT 2820
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Db 2821 GTTTTATATTAGGCAATTTGGGGATTTGGGGTGGGGGTTATAGTTTATGAGGGTTTC 2880
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Db 2881 TAAGAAATTTGCTAACAAAGCACTTTTGGCAATGCTATCCAGCAGGAAAAAAGGATA 2940
Qy 2936 ATATAACTGTTTAAACCTTTCTGGGAATCCAATTTATAGTTCTTGTGTTTAAAAA 2995
Db 2941 ATATAACTGTTTAAACCTTTCTGGGAATCCAATTTATAGTTCTTGTGTTTAAAAA 3000
Qy 2996 CAAGAACAGCAAGGGTGTTCGCGAGGTAGTGTCTTAAAGATTGGTCCCTGAA 3055
Db 3001 CAAGAACAGCAAGGGTGTTCGCGAGGTAGTGTCTTAAAGATTGGTCCCTGAA 3060
Qy 3056 AATATGCTTCTGTATCAAGAGTATGTTGGTCAACCAAGGAGCAAACTTCTTTT 3115
Db 3061 AATATGCTTCTGTATCAAGAGTATGTTGGTCAACCAAGGAGCAAACTTCTTTT 3120
Qy 3116 ATTTCTTCTCTTTTAAACAAATGTTGAAAGATGAGGATTAACCTACAAATCAGA 3175
Db 3121 ATTTCTTCTCTTTTAAACAAATGTTGAAAGATGAGGATTAACCTACAAATCAGA 3180
Qy 3176 CATGCAAAAACAATAGCTGTTTTCATTAACCAAGTGCAATTTTAAAGTGTG 3235
Db 3181 CATGCAAAAACAATAGCTGTTTTCATTAACCAAGTGCAATTTTAAAGTGTG 3240
Qy 3236 TCTTAAGTCTTGTATTAACCTCTCTTTATTTATATGGAATAAAGAGGAGCAG 3295
Db 3241 TCTTAAGTCTTGTATTAACCTCTCTTTATTTATATGGAATAAAGAGGAGCAG 3300
Qy 3296 TCATGTTAGCAAAATGACAGTTATATCCCTAGCAGAGGCTGTGTACCTTCCCTGFCG 3355
Db 3301 TCATGTTAGCAAAATGACAGTTATATCCCTAGCAGAGGCTGTGTACCTTCCCTGFCG 3360
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Db 3361 ATCCCTCTGAGGTATGCCCCATCCAGACTTTTATAGGCCATTTCTGTGGAAACAGATCC 3420
Qy 3416 CTGCCCTGACTGTCCAGCTATCCTGAAAGTGGATCAGATTATAAATGGAATTAATGTAA 3475
Db 3421 CTGCCCTGACTGTCCAGCTATCCTGAAAGTGGATCAGATTATAAATGGAATTAATGTAA 3480
Qy 3476 CTGTTTGTGTTGTGTTTATCAACCCCAACAGAGTTCCCTAAACTGTCTTCAGTTATAGT 3535
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Db 3661 TTTTATAGATATAATTTTATTTTGTGTTTATGTTTAAAGAGACAAATTTTGGAGACAAAGCA 3720

Qy 3716 AA---TCTTTTAAATAATAGTATGAATGTGAATACTAGAAAAGATTTTAAAAATAGTAT 3772
Db 3721 AATCTTCTTTTAAATAATAGTATGAATGTGAATACTAGAAAAGATTTTAAAGAAATAGTAT 3780
Qy 3773 GAGTGTGAGTACTAGGAAGGAT 3794
Db 3781 GAGTGTGAGTACTAGGAAGGAT 3802

RESULT 8

US-09-873-367C-229
; Sequence 229, Application US/09873367C
; Publication No. US20030165839A1
; GENERAL INFORMATION:
; APPLICANT: Young, Paul
; APPLICANT: Soppet, Daniel
; APPLICANT: Endress, Gregory
; APPLICANT: Augustus, Meena
; APPLICANT: Ebner, Reinhard
; APPLICANT: Carter, Kenneth
; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using
; FILE OF INVENTION: Signature Gene Sets
; FILE REFERENCE: 689290-64
; CURRENT APPLICATION NUMBER: US/09/873,367C
; CURRENT FILING DATE: 2003-04-29
; PRIOR APPLICATION NUMBER: U.S. 60/236,891
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: U.S. 60/236,842
; PRIOR FILING DATE: 2000-09-29
; PRIOR APPLICATION NUMBER: U.S. 60/244,867
; PRIOR FILING DATE: 2000-11-01
; PRIOR APPLICATION NUMBER: U.S. 60/245,084
; PRIOR FILING DATE: 2000-11-01
; NUMBER OF SEQ ID NOS: 1057
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 229
; LENGTH: 4977
; TYPE: DNA
; ORGANISM: Homo sapiens
US-09-873-367C-229

Query Match 75.8%; Score 2875; DB 3; Length 4977;
Best Local Similarity 98.1%; Pred. No. 0;
Matches 3008; Conservative 0; Mismatches 40; Indels 19; Gaps 9;

Qy 733 CCTGTGCTCCAGCCCAATATAGCCCTTCCCTCCAGTTCAGTTATGCGG--CGCAGA 790
Db 94 CCTGTGCTCCAGCCCAATATAGCCCTTCCCTCCAGTTCAGTTATGCGGCTGTGAGA 153
Qy 791 CATACAGCTCGGAATACACCGAGATCATGAACCCCGACTACACCAAGCTGACCATGG 850
Db 154 CATACAGCTCGGAATACACCGAGATCATGAACCCCGACTACACCAAGCTGACCATGG 213
Qy 851 ACCTTGGCAGCACTGAGATCAACGCTACAGCCACCGCTCCCTCCAGCATCAGTACT 910
Db 214 ACCTTGGCAGCACTGAGATCAACGCTACAGCCACCGCTCCCTCCAGCATCAGTACT 273
Qy 911 TCGTGGAGGGCTACTCGAGCAACTACGAACCTCAAGCCCTTCTGCTGTACCAATGCGAGC 970
Db 274 TTGTGGAGGGCTACTCGAGCAACTACGAACCTCAAGCCCTTCTGCTGTACCAATGCGAGC 333
Qy 971 GGCCCTTGATCAAGTGGAGAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 1030
Db 334 GGCCCTTGATCAAGTGGAGAGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGGG 393
Qy 1031 ACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 1090
Db 394 ACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCAACCA 453
Qy 1091 CCAGCCCGAGGAGGAGGTGCTGCCAGCACTTCCATGTACTTCAAGCAGTCCCAACCGT 1150
Db 454 CCAGCCCGAGGAGGAGGTGCTGCCAGCACTTCCATGTACTTCAAGCAGTCCCAACCGT 513

QY 1151 CCACCCCAACGACGGCGCTTCCCGCCGACGGCGGGCGTGTATGGGACGAGGCACTGC 1210
Db 514 CCACCCCAACCAACGCGCGCTTCCCGCCGACGGCGGGCGTGTATGGGACGAGGCACTGC 573
QY 1211 CCTCGGCGCGCGCTGCAATCGCACCCGCGCGCTGACCCCGCGGATGAAGGCGGTCC 1270
Db 574 CCTCGGCGCGCGCTGCAATCGCACCCGCGCGCTGACCCCGCGGATGAAGGCGGTCC 633
QY 1271 CCACGGTGGCGCGCGCTTCCCGCTTCCACTTCAAGCCCTCGCGCGCGCATCCCC 1330
Db 634 CCACGGTGGCGCGCGCTTCCCGCTTCCACTTCAAGCCCTCGCGCGCGCATCCCC 693
QY 1331 CGCGCCCAAGCCCGCGCGCGCGCACTCGGCTACGACCCGAGCGCGCTCGCGCGC 1390
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QY 1391 TCAGCGCTGCGCGTGGAGCGCGCAGCCGCGCGCGGACGACGCGCGCTTGAAGGCC 1450
Db 754 TCAGCGCTGCGCGTGGAGCGCGCAGCCGCGCGCGGACGACGCGCGCTTGAAGGCC 813
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Db 814 ACCCGTAGCGGCTGCGCTGGCCAAAGAGGGCGCGCCGCTGCGCTTCCCGCTCTCGGC 873
QY 1511 TCAGCGCTTCCCGTACCGGCTCAGCGTCTGGGCGAGAGTCCAGCGCTGCGGTCGCGC 1570
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QY 1811 TTGTCCGTACAGATAGTCTGAAAGGAGGAGGAGTGTCTGCTTCCAAACCAAGAGCC 1870
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Qy 3728 AAATAGTATGATGTAATCTAGAAAGATTTTAAATAGTATGATGAGTACTAG 3787
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Qy 3788 GAAGGAT 3794
Db 3140 GAAGGAT 3146
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US-10-755-889-63
; Sequence 63, Application US/10755889
; Publication No. US20040171823A1
; GENERAL INFORMATION:
; APPLICANT: Bristol-Myers Squibb Company
; TITLE OF INVENTION: POLYNUCLEOTIDES AND POLYPEPTIDES ASSOCIATED WITH THE NF-kB
; FILE OF INVENTION: PATHWAY
; FILE REFERENCE: D0284 NP
; CURRENT APPLICATION NUMBER: US/10/755,889
; CURRENT FILING DATE: 2004-01-13
; PRIOR APPLICATION NUMBER: U.S. 60/440,068
; PRIOR FILING DATE: 2003-01-14
; PRIOR APPLICATION NUMBER: U.S. 60/469,757
; PRIOR FILING DATE: 2003-05-12
; NUMBER OF SEQ ID NOS: 823
; SOFTWARE: PatentIn version 3.2
; SEQ ID NO 63
; LENGTH: 4977
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-755-889-63
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Query Match 75.8%; Score 2875; DB 7; Length 4977;
Best Local Similarity 98.1%; Pred. No. 0;
Matches 3008; Conservative 0; Mismatches 40; Indels 19; Gaps 9;

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Qy 791 CATACAGCTCCGAATACACACGAGATCATGAACCCGAGCTACACCAAGCTGACCATGG 850
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QY 3131 TATTTTAAACAATGGTGAAGATGGAGGATTAACCTTACAAATCAGACATGGCAAAACAATA 3190
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QY 3191 ATGGCTGTTTCTTCCATAAACAAGTGCAATTTTTTAAAGTGTGCTCTTACTAAGCTTTG 3250
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US-10-843-641A-229

; Sequence 229, Application US/10843641A

; Publication No. US2005006445A1

; GENERAL INFORMATION:

; APPLICANT: Avalon Pharmaceuticals, Inc.

; TITLE OF INVENTION: Cancer Gene Determination and Therapeutic Screening Using

; TITLE OF INVENTION: Signature Gene Sets

; FILE REFERENCE: 689290-189

; CURRENT APPLICATION NUMBER: US/10/843,641A

; PRIORITY FILING DATE: 2004-05-12

; PRIOR APPLICATION NUMBER: US/09/873,367

; PRIOR FILING DATE: 2001-06-05

; PRIOR APPLICATION NUMBER: US/09/954,531

; PRIOR FILING DATE: 2001-09-18

; PRIOR APPLICATION NUMBER: US/09/954,456

; PRIOR FILING DATE: 2001-09-25

; PRIOR APPLICATION NUMBER: US/09/962,436

; PRIOR FILING DATE: 2001-09-25

; PRIOR APPLICATION NUMBER: US/09/962,832


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; PRIOR FILING DATE: 2001-09-25
; PRIOR APPLICATION NUMBER: US/09/964,824
; PRIOR FILING DATE: 2001-09-27
; PRIOR APPLICATION NUMBER: US/09/967,768
; PRIOR FILING DATE: 2001-09-28
; PRIOR APPLICATION NUMBER: US/09/968,007
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,347
; PRIOR FILING DATE: 2001-10-02
; PRIOR APPLICATION NUMBER: US/09/969,708
; PRIOR FILING DATE: 2001-10-03
; Remaining Prior Application data removed - See File Wrapper or PALM.
; NUMBER OF SEQ ID NOS: 8447
; SOFTWARE: PatentIn version 3.0
; SEQ ID NO 229
; LENGTH: 4977
; TYPE: DNA
; ORGANISM: Homo sapiens
US-10-843-641A-229

Query Match          75.8%; Score 2875; DB 9; Length 4977;
Best Local Similarity 98.1%; Pred. No. 0;
Matches 3008; Conservative 0; Mismatches 40; Indels 19; Gaps 9;

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DB 874 TCAGCGCTTCCCTTACCGCGTCCAGCCTGCTGGGGGAGAGTCCCGCTGCGCGCGC 933
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Db 1894 TCTTCTACTGGAAGCTGGAAGACTTGGTGTCTCCACCTTCCATCATTTGACAGCTCTTCC 1953
QY 2591 TGGACACCTTACTCTTCTAATCAGAGCAGTGGAGAGTGCCTCCTCTCTAGCA 2650
Db 1954 TGGACACCTTACTCTTCTAATCAGAGCAGTGGAGAGTGCCTCCTCTCTAGCA 2013
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Db 2374 GTTGTTCGCGAGGTAGGATGTCTTAAGAAATGGTCCCTTGAATAATGCTTCTGTA 2433
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RESULT 11

US-10-641-643-928
; Sequence 928, Application US/10641643
; Publication No. US20040077003A1
; GENERAL INFORMATION:
; APPLICANT: Cocks, Benjamin G.
; Susan G. Stuart
; Jeffrey J. Seilhamer
; TITLE OF INVENTION: COMPOSITION FOR THE DETECTION OF BLOOD CELL
; GENE EXPRESSION
; NUMBER OF SEQUENCES: 1508
; CORRESPONDENCE ADDRESS:
; ADDRESSEE: INCYTE PHARMACEUTICALS, INC.
; STREET: 3174 PORTER DRIVE
; CITY: PALO ALTO
; STATE: CALIFORNIA
; COUNTRY: USA
; ZIP: 94304
; COMPUTER READABLE FORM:
; MEDIUM TYPE: Floppy disk
; COMPUTER: IBM PC compatible
; OPERATING SYSTEM: PC-DOS/MS-DOS
; SOFTWARE: Word Perfect 6.1 for Windows/MS-DOS 6.2
; CURRENT APPLICATION DATA:
; APPLICATION NUMBER: US/10/641,643
; FILING DATE: 14-Aug-2003
; CLASSIFICATION: <Unknown>
; PRIOR APPLICATION DATA:
; APPLICATION NUMBER: <Unknown>
; FILING DATE: <Unknown>
; ATTORNEY/AGENT INFORMATION:
; NAME: Zeller, Karen J.
; REGISTRATION NUMBER: 37,071
; REFERENCE/DOCKET NUMBER: PA-0001 US
; TELECOMMUNICATION INFORMATION:
; TELEPHONE: (650) 855-0555
; TELEFAX: (650) 845-4166
; INFORMATION FOR SEQ ID NO: 928:
; SEQUENCE CHARACTERISTICS:
; LENGTH: 2714 base pairs
; TYPE: nucleic acid
; STRANDEDNESS: single
; TOPOLOGY: linear
; IMMEDIATE SOURCE:
; LIBRARY: GENBANK
; CLONE: g1311504
; SEQUENCE DESCRIPTION: SEQ ID NO: 928 :
US-10-641-643-928

Query Match 70.9%; Score 2689.6; DB 7; Length 2714;
Best Local Similarity 99.9%; Pred. No. 0;
Matches 2692; Conservative 0; Mismatches 4; Indels 0; Gaps 0;

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1794 TACAGATAGTCTGAAAGGAGGAGAGTGTCTGCTTCCAACTTCAAGAGAGCCCAATTACA 1853
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2214 ACTTCAGTGCCTTCGCGATTTGGGAGTGGCTCGACTTATTAAGAGCTTTTCTTAAA 2273
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1914 CCGAGCTTTTACAGAGCGAAGCCAGAGAGCTTGAATTACTCCAGATACTGTGCCACCGA 1973
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2872 CACTTTTGATGATGCTATCCAGAGTGGGTGGGAGAAAGGATAATATTAACCTGTTTT 2931
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RESULT 15

US-10-191-803-209

; Sequence 209, Application US/10191803

; Publication No. US2004001404A1

; GENERAL INFORMATION:

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Db 1734 ATGTCAGTACTCTCGATTTTCAGAGTGTCTCAGTGTTCGAATGGTAAAGAAAGTTGTCG 1793
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Db 1974 CCAGGCCACTCGCGGCACAGACGCTGAGCAGCTGAGCAGATTTCTACAACTTCTGACGCG 2033
Qy 2058 CTCCTATTGATGATCCAGAGCTGGGAGAGAAAGATTCGGGATTTACTGATCTCCCAA 2117
Db 2034 CTCCTAGCTGTCCAGAGCTGGGAGAGAAAGATTCGGGATTTCACTGATCTCCCAA 2093
Qy 2118 AGAAGATCAGACATTAATTAATGATCAGCTTTTGGAGCTGTGTCCTCAGACTTTC 2177
Db 2094 AGAAGATCAGAGCTTACTTATGAATCAGCCCTTTTGGAGCTGTGTCCTTGAAGCTTTC 2153
Qy 2178 CATCAGCTCAACACTGCTGAAGATAAGTTGTGTTCTGCAATGAGCTGTGTCCTGATCG 2237
Db 2154 TATCAGCTCAACACTGCTGAAGATAAGTTGTGTTCTGCAATGAGCTGTGTCCTGACCG 2213
Qy 2238 ACTTCAGTGCCTTCTGTGATTTGGGAGTGGCTCGACTCTATTAAGAATCTTTCTTAAA 2297
Db 2214 ACTTCAGTGCCTTCTGTGATTTGGGAGTGGCTCGACTCTATTAAGAATCTTTCTTAAA 2273
Qy 2298 TTTGAGAGCTGAACTTGTATATCAAGCCTTAGCCTGCTGCTGCTGAGCTGAGCATGAT 2357
Db 2274 TTTGAGAGCTGAACTTGTATATCAAGCCTTAGCCTGCTGCTGCTGAGCTGAGCATGAT 2333
Qy 2358 CACGAAAGACATGGGTTTAAAGAACCAAGAGAGTTCGAAGAGCTATGCAACAGATCAC 2417
Db 2334 CACAGAGCAGATGGGTTTAAAGAACCAAGAGAGTTCGAAGAGCTATGCAACAGATCAC 2393
Qy 2418 AAGCGTTTAAAGACCAAGAGTAAAGGAGAGCTCTGAGAGCCCAAGAGTCAAGGT 2477
Db 2394 AAGCAGCTTAAAGGAGCCACAGAGAGAGGAGCAGGCTCTGAGAGCCCTCAGAGCCCAAGGT 2453
Qy 2478 CTTGGTGCCTTGTGAGAACTGAGAGATCTGACCCCTGGGCTCCAGCGCATCTTCTA 2537
Db 2454 CTTGCGCATCTGTGGAATCTGAGGAATCTGACCCAGGCTCCAGCGTATCTTCTA 2513
Qy 2538 CTTGAAGCTGGAAGACTTGGTGTCTCCACCTTCCATCAATGCAAGCTCTTCTCGGACAC 2597
Db 2514 CTTGAAGCTGGAAGACTTGGTGTCTCCACCTTCTGATCATGCAAGCTCTTCTCGTATAC 2573
Qy 2598 CTTACCTTTCTAATCAGAGAGAG -TGGAGAGTGAAGTGGCTCTCTCTCTAGCAGCTGCT 2656
Db 2574 CTTGCTTCTGAGCAGGAGAGCCCTGAGCAGAGAGCTTGTGCTGCTGCTGCTGCTGCTGCT 2633
Qy 2657 TGCTACGAGCAAGGAGTGTGGAACCTATCATTTCTGCTCTCTTCTTGAAGGA 2716
Db 2634 ATTAAGTGAAGCAAGGAGTGTGGAACCT -GCCCTCTATCTCTTCTTCCAGGGGAA 2692
Qy 2717 AAAGCAGCTCTGTAGAAAGCAAGACTTTCTTTTCTGCTGCTCTTTCTTCTTACAC 2776
Db 2693 AAAGCAGCTCTCATAGAAAGCAAGACTTT -TTTTTCTGCTGCTCTTCTTCTTACAC 2751
Qy 2777 TAAAGCCAGAAAATCTGAGAGTATGTTGGGTTGTGTTTATATTTAGGCAATGGG 2836
Db 2752 TAAAGCCAGAAAATCTGAGAGTATGTTGGGTTGTGTTTATATTTAGGCTTTGGT 2811

Qy 2837 GGATGGGCTGGAGGGGT -TATAGTTTATGAGGGTTTCTAAGAAATTTGCTAACAAG 2894
Db 2812 GGGTGGGCTGGAGGGGTAAATATAGTTTCTAGAGCTTTTCTAAGAAATTTGCTGAGAAG 2871
Qy 2895 CACTTTTGGCAAAATGCTATCCAGCAG -GAAAAAAGGAGTAAATATAAATCTGTTT 2948
Db 2872 CACTTTTGGATGATATCCAGCAGTGGGTGGGAGAAAGGATATATATAAATCTGTTT 2931
Qy 2949 AAAA -CTCTTTTGGGGAATCCAAATATAGTTGCTTTGATTTTAAAAACAAGAACAGCC 3006
Db 2932 AAAAATCTTTCCGGGGGAATATGATGTTGTTGTTGTTTAAAAAATAAGAACAGCC 2991
Qy 3007 AAGGCTTG -TTCCGAGGAGTGGTGTCTTAAAGATTTGCTTGAANAATATGCTTC 3065
Db 2992 AAGGCTGTTTACAGGGTAGGGTGTGCTTAAAGACTGATCCCTTTAGTATGACTTC 3051
Qy 3066 CTGTATCAAGGTAGTATGTGGTGCACAAAGGAGGAGAA -CTTCTCTTT 3113
Db 3052 CCGGATC -GAGGCACATAAGTGTGCAATGAGGCGGGGAAATTTCTTCAATTTCTTCAAT 3110
Qy 3114 TAAATTCCTTCTCTTATTTTAACTGTTTAACTGTTGAAAGATGAGGATTTACCTCAAAATCA 3173
Db 3111 CTCTTCTCTTCTTAAATAAAAATGCAAAAAAAGATGGAAGATTTCTTACAAATCA 3170
Qy 3174 GACATGGCAAAACAAATATGCTGTTGCTTCCATAAACAAGTGCATTTTAAAGTGC 3233
Db 3171 GACTTAGCAAAATGATATGCTATTTGCTTCCATACAAGTGCATTTTATAGATGC 3230
Qy 3234 TGTCTTAAAGTCTTGTTTTAACTCTCTTATTTCTATATGGAATAAAGAGAGGC 3293
Db 3231 TGTCTTAAAGTCTTGTGTGAACTCTCTCTCAATTTATGAAATTAAGAGAGGC 3290
Qy 3294 AGTCATGTTGCAAAATGACAGCTTAATCTTACGAGAGGCTGTGTTCACTTCCCTGT 3353
Db 3291 AGTCATGTTTCAAAACGCGCTGCTCATTTCTAGCTCACCTTGGTCCACTGCTGT 3350
Qy 3354 CGATCCCTCTGAGGTATGGCCCATCCAAGACTTTTAGGCCATTTTGAATGGAACAGAT 3413
Db 3351 AGAACCTTCCGAGGTATGGCCCTTCTAAGACTTTTCAAGCCACTTCTGATGGAATTCGAC 3410
Qy 3414 CCC -TGCCCTGACTGTCCAGCTATCTGAAAGTGGATCAGATTATAAACTG 3463
Db 3411 ACCCTCCCTCAACCCATGACTATCCAGATGTCTGATGGGATCAGGTTATAAATG 3470
Qy 3464 GATTACATGTAATCTGTTTGGTTGTT -TCTATCAACCCCAAGAGTTCCTTAACTTG 3522
Db 3471 GATTGCTATGACTGTGTGCTGTGTTTGTCAACCTGAGCAGAGTTCTCTAAACCTT 3530
Qy 3523 CTTCAAGTTATAGTAACTGACTGTTATTTCTTCTTCTGAGGCTGCTGAGGCTGCTGAGT 3575
Db 3531 CTTTAGTTGATGAGGTTCTGATTTCTTCTTCTGAGGCTGCTGAGGCTGCTGAGT 3590
Qy 3576 TGAGTATTTGATCTCTAGATAAGAACATGCAAAATCAGCAGGAACT -GGTCAACAGGTA 3634
Db 3591 CGATCAAGGTTAACCTTAGGAGAACATGCAAAATAGTAGGAACTGGGTGAGCAGGTA 3650
Qy 3635 AGCACAGGAGCAATAGGATTTTATAGATAT -AATTTAATTTTGTATTTGG 3687
Db 3651 AGCACAGAGATGATAGGATTTATATATAAATATATAAATAAATTTATTTTGTATTTGG 3710
Qy 3688 TTAGGAGACAAATTTTGGAGGCAAGCAATCTTTT 3723
Db 3711 TTA -TAGACAAATTTTGGAAAGCAAGAAATCATCT 3744

Search completed: March 18, 2006, 04:43:47

Job time : 2636 secs

Result No.	Score	Query Match	Length	DB	ID	Description
1	2501.6	65.9	4457	12	US-11-136-527-2981	Sequence 2981, App
2	944.8	24.9	4275	12	US-11-136-527-2433	Sequence 2433, App
3	495.6	13.1	2802	12	US-11-136-527-2526	Sequence 2526, App
4	495.4	13.1	1797	9	US-11-138-640A-3	Sequence 3, Appli
5	486.6	12.9	1797	9	US-11-138-640A-1	Sequence 1, Appli
6	367	9.7	2464	9	US-11-245-147-139	Sequence 139, App
7	367	9.7	2464	12	US-11-091-883-107	Sequence 107, App
8	365.2	9.6	3518	12	US-11-136-527-2799	Sequence 2799, App
9	342.6	9.0	1821	9	US-11-245-147-64	Sequence 64, Appli
10	109.6	2.9	2879	12	US-11-124-368A-166	Sequence 166, App
11	109.4	2.9	2330	12	US-11-166-412-3	Sequence 3, Appli
12	109.4	2.9	3113	12	US-11-166-412-5	Sequence 30, Appl
13	109.4	2.9	3113	12	US-11-091-883-30	Sequence 30, Appl
14	109.4	2.9	4916	12	US-11-091-883-176	Sequence 176, App
15	109.4	2.9	5054	12	US-11-166-412-4	Sequence 4, Appli
16	108	2.8	1251	12	US-11-166-412-5	Sequence 5, Appli
17	106.6	2.8	1400	12	US-11-136-527-996	Sequence 996, App
18	106.6	2.8	1604	12	US-11-136-527-4231	Sequence 4231, App
19	106.2	2.8	2130	12	US-11-136-527-135	Sequence 135, App
20	106.2	2.8	1563	12	US-11-136-527-2138	Sequence 2138, App
					US-11-136-527-1995	Sequence 1995, App

Db	241	CTGACAGAGCGGGCAGTGGCCGTGGAGGTGGGAACGTGGCGACATCTAGCCCCCTGGTC	300
Qy	339	ACAGCCCAAGCCAGGACGCGCCCGGAACTCTCGGCTGTGCTCTCCCATGATCGGGATC	398
Db	301	GCAGCGGAGACTGGAAG-CTGCGGAACCTCTCGCGCGCGCTCTCCCATGATGGGATC	359
Qy	399	GCAGCATCCCCCACCAGCC--GCTCACCGCTCCGGGAGCGCTGGGCTTGTAACCGC	455
Db	360	GCAGCATCCCCCAGCAGCGCTGCTACCGCTCTGGGGAGCGCTGGGTTTGTACCGC	419
Qy	456	AGCCCTTCGGGACAGCAGCTGTGACTCTCCCGCCAGTGCAGATTTTCGGGACAGCTCTCTA	515
Db	420	AGCCCTTCGGGACAGCAGCTGTGACTCTCCCGCCATCCAGATTTTCGGGCTGCTCTA	479
Qy	516	GAATCTGCTTAAGACGGAACCGGCACAGCACTCAAAAGCCCACTGCGGAAGAGGGCAG	575
Db	480	GAATCTGCTTAAGACGGAACCTCCACAGAACCAGGCCCACTGCGGGAGAGCGCAG	539
Qy	576	CCCGCAAGCCCGGCGCTGAGCCTGGACCTTGAGGCTTGGGTCGCGGACGA-----CTGC	629
Db	540	CCCGCAAGCCCGGCGCTGAGCCTGGACCTTCAACAGAGCGGGCCAGCAAGCGGCGGC	599
Qy	630	CGCGCTTCGCGCTCGCGGAGCTCGGCTCTCTACACTCTCAGCCTTCGCTGGAGAGAC	689
Db	600	GGCTGCTTCGCTATCCCGAGCTCCCGGCTCTCTACACTCTCAGCCTCGCTGGAGAGAC	659
Qy	690	CCCGAGCCCACTTACAGCGGCGAAGATACCTCCAGATATGCCCTGGGTCGAAGCCCA	749
Db	660	CCCGAGCCCACTTACAGCGGCGAAGATACCTCCAGATATGCCCTGGGTCGAAGCCCA	719
Qy	750	ATATAGCCCTTCCCTCCAGGTTCCAGTTATGGGCGGAGACATACAGCTCCGATACAC	809
Db	720	ATATAGCCCTTCCCTCCAGGTTCCAGTTATGGGCGGAGACATACAGCTCCGATACAC	779
Qy	810	CACGAGATCATGAACCCCGACTACACCAAGCTGACCATGGACCTTGGCAGCACTGAGAT	869
Db	780	CACAGAAATCATGAAACCCCGACTATGCGCAAGCTGACCATGGACCTCGGTAGCACGGGAT	839
Qy	870	CACGGCTACAGCCACGCTCTCGTCCGAGCATCAGTACTCTTGGTGGAGGGCTACTCGAG	929
Db	840	CATGGCCACGGCCACGACCTCTCGTCCGAGCTTCACTTATGCGCAGCAGCTTATGGCTCGGAATACAC	899
Qy	930	CAACTACGAATCATAGCCTTCTCGTGGTGTACCAATGACG-----CGGCCCTT	977
Db	900	CAGCTCGGAATCATAGCCTTCTCGTGGTGTACCAATGCGCCTTCTGGGCCCTCGGCCCTT	959
Qy	978	GATCAAGTGGAGGGGGGGCGCGCCAGCTACCATCACTACACCAACCAACCA	1037
Db	960	GATCAAGTGGAGGGGGGGCGCGCATGCTTACCATCACTACACCAACCAACCA	1019
Qy	1038	GCACGACCATCACTACAGCAGAGCATCAGCAGCCATCCATCTCTCAGCCTCCAGCC	1097
Db	1020	TCAATCAACCAACCAACAGCAG-----CAGCAGCGGCTCAATCTCTCTCTGGGCC	1073
Qy	1098	GGAGGACGAGGTGCTGCCAGCAGCTTCACTGATCTTCAAGCAGTCCCAACCGTCCACCC	1157
Db	1074	CGAGGACGAGGTGCTGCCAGCAGCTTCACTGATCTTCAAGCAGTCTCTCGGCTTACGCC	1133
Qy	1158	CACACGCGCGGCTTCCCCCGCAGCGGGGGGCTTATGGGACGAGGCACTGCGCCTCGGC	1217
Db	1134	GACCACTCCAGGCTTCCCCCGCAGCGGGGGGCTGTTGGGACGAGGCTGCGCCTCTGC	1193
Qy	1218	GCCGCTGATGCAACCGCGCGCTGTGTGACCCGCGCATGAAGCGCGTCCCAACGGT	1277
Db	1194	GCCTGCTGATGCTCGCGGACCGCTGTGTGACCCGCGCATGAAGCGGAGTGCCTCCCAT	1253
Qy	1278	GGCGGCGCGGCTTCCCGCTTCCACTTCCAGCCTCGCGCGCATCCCGCGCGC	1337
Db	1254	GGCGGCTGCTGGCGGCTTCCCGATCTTCTTCAAGCCCTCACCGCCACACCTCCCGCGC	1313
Qy	1338	CAGCCCGCGCGGCGCACCACTCGGCTACGACCCGAGCGCGCTGCGCGCTCAGCCT	1397
Db	1314	CAGCCCGCGCGGCGCACCACTGCGCTATGACCCCAACCGCGCGCTGCGCTCAGTCT	1373
Qy	1398	GCCGCTGGGAGCCGAGCCCGCGGGCAGCGCCGCGCGCTTGAAGAGCCACCCGTA	1457
Db	1374	ACCCCTGGGAGCCCGCGCGCGGGCAGCAAGAGTGTCTTCTCGGCTCGAGGGCCATCCGTA	1433
Qy	1458	CGGCTCGCGCTGGCCAAAGAGCGGCGCGCTTCCGCTTCCGCTCGGCTCAGCGC	1517
Db	1434	CGGCTCGCGCTGGCCAAAGAGCAGCCACGTTGACCTTCTCGCTGGGCTCAGAGC	1493
Qy	1518	CTCCCTTACCGCGTCCAGCTGTGGGCGAGAGTCCAGCCTCGCGCTCGCGCCAGAG	1577
Db	1494	GTCCCTTACCGCGTCCAGCTGTGGGAGAGAGCCCAAGCTTACCATCGCCACCAATAG	1553
Qy	1578	GAGCTCGTGTCTGGCGAGGSCAGTGTGCGCTGTGGGGGACACGCGCGCTGCCAGCA	1637
Db	1554	GAGCTCATCATCCGCGGAGGGCAGTGTGTGTGTGGGGGACCAATGTGCTGCCAGCA	1613
Qy	1638	CTAGCGGCTGCAACCTGCGAGGGCTGCAAGGGCTTTTCAAGAGAACAGTGCAGAAAAA	1697
Db	1614	CTACGGAGTCCGCACTCGGAGGGCTGCAGGGCTTCTTCAAGAGAACGGTGCAGAAAAA	1673
Qy	1698	TGCAAAATATGTTTTCCTGGCAAAATAAAACTGCCCCAGTAGACAAGAGACGTCGAAACCG	1757
Db	1674	CGCAAAATATGTTTTCCTGGCAAAATAAAACTGCCCCAGTAGACAAGAGACGTCGAAACCG	1733
Qy	1758	ATGTCAGTACTGTGATTTTCAAGAGTGTCTCAGTGTGGAGTGTAAAGAGTGTGTCG	1817
Db	1734	ATGTCAGTACTGTGATTTTCAAGAGTGTCTCAGTGTGGAGTGTAAAGAGTGTGTCG	1793
Qy	1818	TACAGATAGTCTGAAGGGGAGGAGGTGCTGCTTCCAAACCAAGAGAGCCCATTTACA	1877
Db	1794	TACAGATAGTCTGAAGGGGAGGAGGTGCTGCTTCCAAACCAAGAGAGCCCATTTACA	1853
Qy	1878	ACAGGAACCTTCTCAGCCCTCTCCACTTCTCTCAATCTGCAATGATGAATGCGCCTGT	1937
Db	1854	ACAGGAGCCCTCGCAGCCCTCTCAGCCTCTCTCGATCTGTATGATGAAGAGCCCTGT	1913
Qy	1938	CGAGCTTTTACAGACTCAACACCCAGAGATCTTGATTTTCCAGATACTGTCACCTGA	1997
Db	1914	CGAGCTTTTACAGAGCGCAACCGCCAGAGCTTGATTTTCTCAGATACTGTCACCGA	1973
Qy	1998	CGAGCTCTGTCAGGACAGATGCTGAGCATGTGCAACAAATTTCTACAACTCTCTGACAGC	2057
Db	1974	CGAGCTCTGTCAGGACAGATGCTGAGCATGTGCAACAAATTTCTACAACTCTCTGACAGC	2033
Qy	2058	CTCCATGATGATTCAGAAAGCTGGGCAAGAAAGATTCGGGATTTA CTGATCTCCCCAA	2117
Db	2034	CTCCATGATGATTCAGAAAGCTGGGCAAGAAAGATTCGGGATTTA CTGATCTCCCCAA	2093
Qy	2118	AGAGATCAGACATTTACTTTTGAATCAGCCCTTTTGGAGCTGTTGCTCTCAGACTTTC	2177
Db	2094	AGAGATCAGACATTTACTTTTGAATCAGCCCTTTTGGAGCTGTTGCTCTCAGACTTTC	2153
Qy	2178	CATCAGGTCAAACTGCTGAAGATAAGTTGTGTTCTGCAATGAGCTTGTCTGCTGATCG	2237
Db	2154	TATCAGGTCAAACTGCTGAAGATAAGTTGTGTTCTGCAATGAGCTTGTCTGCTGATCG	2213
Qy	2238	ACTTCAGTCCCTTCGTGATTTTGGGAGTGGCTGCACTCTATATAAGACTTTTCTTAA	2297
Db	2214	ACTTCAGTCCCTTCGTGATTTTGGGAGTGGCTGCACTCTATATAAGACTTTTCTTAA	2273
Qy	2298	TTTTCAGAGCTTGAACCTTGATATCCAAAGCTTTAGCTGCTGCTCAGACTCAGGATGAT	2357
Db	2274	TTTTCAGAGCTTGAACCTTGATATCCAAAGCTTTAGCTGCTGCTCAGACTCAGGATGAT	2333
Qy	2358	CACAGAAAGACATGGTTTAAAGAAACCAAGAGAGTTCGAAGAGCTTATGCAACAAGATCAC	2417
Db	2334	CACAGAGGACATGGTTTAAAGAAACCAAGAGAGTTCGAAGAGCTTATGCAACAAGATCAC	2393
Qy	2418	AAGCAGTTTAAAGACACACAGAGTAAAGGACAGGCTCTGAGAGCCCAACGAGTCCAGGT	2477
Db	2394	AAGCAGTTTAAAGACACACAGAGTAAAGGACAGGCTCTGAGAGCCCTCAGAGCCCMWSGT	2453